

00004  
CSC

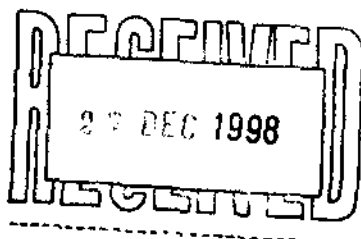


PROJECT  
(Library Management Software)  
Structural Language (CSC-105)

Prepared For :  
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Report-13

**Program MashudRana;**

Uses Dos,crt,graph;  
Label CenterPoint, Last;  
Type Book=Record

BookNames: String[30];  
AuthorName: String[20];  
CollectionDate:String[10];  
Price:string[5];  
BookDescription:String;  
SerialNo:String[4];  
End;{Book}

Check= Record

Bname:String[30];  
Aname:String[25];  
Sname:String[25];  
ID:String[15];  
TDate:String[10];  
RDate:String[10];  
End;{Check}

Var F: File of Book;  
E: File of Check;  
I:File of Check;

F : Book;  
Q :Check;  
Another: Char;  
N : String[30];  
C : Integer;  
t,g : String[30];  
S : LongInt;

Choice ,sCase: Char;  
Gm, Gd,Radious,u : Integer;  
regs :registers;  
row,col:integer;

Access no.	6671
Call no.	
Date: 29.12.98	Price: -

**Deaccessed &  
Weeded**

{\*\*\*\*\*}

**Procedure Introduction1;**

Begin  
ClearDevice;  
SettextStyle(2,0,6);  
Rectangle(1,1,600,450);  
OutTextXY(10,10,'This Software is Created as a project of Structural ')  
Delay(1000);  
OutTextXY(10,30,'language course with the help of our Honourable  
teacher');  
Delay(1000);  
OutTextXY(10,50,'Dr. A. H. M. Asaduzzaman and all of my friends  
specially');  
Delay(1000);  
OutTextXY(10,70,'Mr. Iqbal Ahmed. Thank you everybody. When I will  
use');

```

Delay(1000);
OutTextXY(10,90,'it I will remember you all');
Delay(1000);
OutTextXY(10,130,'It''s first software (Library Management) in my li
');
Delay(1000);
OutTextXY(10,150,'In future i will make a lots of software but first
one');
Delay(1000);
OutTextXY(10,170,'always special. The people who help me to do this
');
Delay(1000);
OutTextXY(10,190,'are special too.');
```

```

{*****How to
Use*****}
```

**Procedure HowToUse;**

```

Begin
ClearDevice;
SettextStyle(2,0,6);
Rectangle(1,1,600,450);
OutTextXY(80,10,'          H O W    T O    U S E          ');
Delay(1000);
OutTextXY(10,50,'Introduction : In the Introduction you will get In
');
Delay(1000);
OutTextXY(10,70,'duction message and help of How to Use and Main
Menu');
```

```

OutTextXY(10,150,'Search : In the search menu you will get another
submenu');
Delay(1000);
OutTextXY(10,170,'Over their will three options to search by Book
name,');
Delay(1000);
OutTextXY(10,190,',Student Name and by Serial Number');
Delay(1000);
SetColor(Green);
OutTextXY(10,220,'Check In : In the Check you have to add which book
has come');
Delay(1000);
OuttextXY(10,240,'In the check in search there are two options By Book
Name');
Delay(1000);
OutTextXY(10,260,'By Student name. Before check out you should search
in the');
Delay(1000);
OutTextXY(10,280,'check In search');
Delay(1000);
SetColor(13);
OutTextXY(10,310,'Check Out : Before check Out you should add and
Search check');
Delay(1000);
OutTextXY(10,330,'Out. You can search in 2 ways by book Name and
Students name');
Delay(1000);
SetColor(12);
OutTextXY(10,360,'Delete : You can add delete and Search Delete. You
have to ');
Delay(1000);
OutTextXY(10,380,'when you delete a book');
Delay(1000);
SetColor(Cyan);
OutTextXY(10,410,'Exit : To exit in the program ');
End;

{*****End of How to
Use*****}

```

**Procedure FunPart;**

```

Begin
SetBKColor(Random(15));
SetTextstyle(3,0,3);
OutTextXY(2,450,'Cavin Costner  ?');
Circle(320,240,200);
circle(320,240,201);
Circle(320,240,202);
Line(300,200,300,300);
Line(301,200,301,300);
Line(300,300,350,275);
Line(302,300,352,275);
Line(303,300,353,275);
Line(270,350,390,350);

```

```

For u:= 1 to 10 do
Begin

For Radius:= 1 to 25 do
Begin
SetColor(Random(15));
Circle(230,190,Radius);
Circle(410,190,Radius);

End;
ClearDevice;

For Radius:= 25 downto 1 do
Begin
Circle(320,240,200);
Circle(320,240,201);
circle(320,240,202);
Line(300,200,300,300);
Line(301,200,301,300);
Line(300,300,350,275);
Line(302,300,352,275);
Line(303,300,353,275);
OutTextXY(2,450,'Cavin Costner  ?');
Line(270,350,390,350);
SetColor(Random(15));
Circle(230,190,Radius);
Circle(410,190,Radius);
End;
End;
End;

{*****End Of Fun
Part*****}

```

**Procedure Introduction;**

```

Begin
Delay(100);
ClearDevice;
Delay(1000);
SetColor(Green);
Settextstyle(3,0,3);
RectAngle(120,50,500,130);
OutTextXY( 200,80,'INTRODUCTION  MENU');
SetColor(Cyan);
SetTextStyle(1,0,2);
RectAngle(120,150,500,450);

RectAngle(180,180,460,225);
OutTextXY(200,200,'Introduction');
RectAngle(180,230,460,275);
OutTextXY(200,250,'How to Use ');
RectAngle(180,280,460,325);
OutTextXY(180,300,' Fun Part ');

```

```

Rectangle(180,330,460,370);
OutTextXY(185,345,'[Ent] Main Menu');

regs.ax:=0;
with regs do
  intr($33,regs);

regs.ax:=1;
with regs do
  intr($33,regs);

repeat
  regs.ax:=3;
  with regs do
    intr($33,regs);
  row:=regs.dx; col:=regs.cx;

  If (row>=180) and (row<=225) and (col>=180) and (col<=460) then
    If regs.bx=1 then Introduction1;

  If (row>=230) and (row<=275) and (col>=180) and (col<=460) then
    If regs.bx=1 then HowToUse;

  If (row>=280) and (row<=325) and (col>=180) and (col<=460) then
    If regs.bx=1 then FunPart;
Until keypressed;
End;

{*****End of
Introduction*****}

```

**procedure Inventory;**

```

Begin
RestoreCrtMode;
ClrScr;
Assign(F,'Test.txt');
Reset(F);
While not eof(F) do
  Begin
  Read(F,F);
  GotoXY(14,4);
  TextColor(Green);
  Writeln('I N V E N T O R Y   W I N D O W ');
  TextColor(Cyan);
  GotoXY(10,9);
  Writeln(' Book Name           :',P.BookNames);
  GotoXY(10,11);
  Writeln(' Author Name            :',P.AuthorName);
  GotoXY(10,13);
  Writeln('Collection Date (dd-mm-yyyy) :',P.CollectionDate);
  GotoXY(10,15);
  End;
End;

```

```

        Writeln(' Price                               :',P.Price);
        GotoXY(10,17);
        Writeln(' Book Serial NO                       :',P.SerialNo);
        GotoXY(10,19);
        Writeln(' Book Description                               :',P.BookDescription);
        readkey;
    End;
    Repeat until keypressed;
Gd:=Detect;
InitGraph(Gd,Gm,'C:\tp\Bgi\');
End;

{*****End of Inventory*****}

```

### **Procedure Add;**

```

Begin
RestoreCrtMode;
ClrScr;
another:='y';
Assign(F,'Test.txt');
Reset(F);
S:=filesize(F);
Seek (f,s+1);
While ( another='y') do
    Begin
        Clrscr;
        GotoXY(23,4);
        TextColor(Green);
        Writeln('A D D W I N D O W ');
        GotoXY(10,9);
        TextColor(Cyan);
        write('Type Book Name                               : ');
        readln(P.BookNames);
        GotoXy(10,11);
        Write ('Type Author Name                               : ');
        Readln(P.AuthorName);
        GotoXy(10,13);
        Write('Type Collection Date(dd-mm-yyyy)                   : ');
        Readln(P.CollectionDate);
        GotoXy(10,15);
        Write('Type Price of This Book                               : ');
        Readln(P.Price);
        GotoXY(10,17);
        Write('Type Description About This Book                       : ');
        Readln(P.BookDescription);
        GotoXy(10,19);
        Write('Type Serial Number of This Book                       : ');
        Readln(P.SerialNo);
        Write(F,P);
        GotoXY(10,23);
        TextColor(Red);
        Writeln(' Repeat Again (y/n) ');
        Another:=Readkey;
    end;

```





```

        Writeln(' Book Description'           :',P.BookDescription);
end
end;
GotoXy(10,23);
TextColor(Red);
Writeln('Serach Again?(Y/N) :');
Another:=Readkey;
end;

```

```

end;

```

```

{*****End of Search By Book
Name*****}

```

### **Procedure Search2;**

```

begin
RestoreCrtMode;
Another:='t';

regs.ax:=0; {For Displaying Mouse}
with regs do
intr($33,regs);
regs.ax:=1;
with regs do
intr($33,regs);

assign(F,'Test.txt');
Clrscr;
While (another='t') do
begin
ClrScr;
Reset(F);
GotoXY(14,4);
TextColor(Green);
Writeln('S E A R C H   B Y   A U T H O R   N A M E ');
GotoXY(10,9);
Write('Input Author Name to be searched : ');
Read(g);
While Not eof(f) do
begin
read(F,P);
If P.AuthorName=g then
begin
ClrScr;
GotoXY(14,4);
TextColor(Green);
Writeln('S E A R C H   B Y   A U T H O R   ' ' S   N A M E   W I N
O W ');
GotoXY(10,9);
TextColor(Cyan);
Writeln(' Book Name'           :',P.BookNames);
GotoXY(10,11);
Writeln(' Author Name'        :',P.AuthorName);
GotoXY(10,13);
Writeln(' Collection Date (dd-mm-yyyy)' :',P.CollectionDate

```

```

        GotoXY(10,15);
        Writeln(' Price                               ',P.Price);
        GotoXY(10,17);
        Writeln(' Book Serial NO                       ',P.SerialNo);
        GotoXY(10,19);
        Writeln(' Book Description
: ',P.BookDescription);
        end
end;

```

```

GotoXY(10,23);
TextColor(Red);
Writeln('Serach Again?(Y/N) :');
Another:=Readkey;
end;
end;

```

```

{*****End Of Search By Author
Name*****}

```

### **Procedure Search3;**

```

begin
RestoreCrtMode;
Another:='t';

regs.ax:=0; {For Displaying Mouse}
with regs do
intr($33,regs);
regs.ax:=1;
with regs do
intr($33,regs);

assign(F,'Test.txt');
Clrscr;
While (another='t') do
begin
ClrScr;
GotoXY(14,4);
TextColor(Green);
Writeln('S E A R C H   B Y   B O O K   S E R I A L   N U M B E R ');
Reset(F);
GotoXY(10,9);
Write('Input Author Name to be searched : ');

Read(g);
While Not eof(f) do
begin
read(F,P);
If P.SerialNo=g then
begin
ClrScr;
GotoXY(14,4);
TextColor(Cyan);
Writeln('S E A R C H   B Y   B O O K   S E R I A L   N U M B E
W I N D O W ');

```

```

        GotoXY(10,9);
        Writeln(' Book Name                               : ',P.BookNames);
        GotoXY(10,11);
        Writeln(' Author Name                               : ',P.AuthorName);
        GotoXY(10,13);
        Writeln(' Collection Date (dd-mm-yyyy) : ',P.CollectionDate);
        GotoXY(10,15);
        Writeln(' Price                                           : ',P.Price);
        GotoXY(10,17);
        Writeln(' Book Serial NO                               : ',P.SerialNo);
        GotoXY(10,19);
        Writeln(' Book Description                               : ',P.BookDescription);
    end
end;
GotoXY(10,23);
TextColor(Red);
Writeln('Serach Again?(Y/N) :');
Another:=Readkey;
end;
end;

{*****End Of Search By Serial
Number*****}

```

### **Procedure Search;**

```

Begin
ClearDevice;
Delay(1000);
SetColor(Green);
Settextstyle(3,0,3);
RectAngle(120,50,500,130);
OutTextXY( 200,80,'SEARCH MENU');
SetColor(Cyan);
SetTextstyle(1,0,2);
RectAngle(120,150,500,450);

RectAngle(180,180,460,225);
OutTextXY(200,200,'By Book Name ');
RectAngle(180,230,460,275);
OutTextXY(200,250,'By Author Name ');
RectAngle(180,280,460,325);
OutTextXY(180,300,' By Book Serial Number ');
RectAngle(180,330,460,370);
OutTextXY(185,345,'[Ent] Main Menu');

regs.ax:=0;
with regs do
intr($33,regs);

regs.ax:=1;
with regs do
intr($33,regs);

```

```

repeat
regs.ax:=3;
with regs do
intr($33,regs);
row:=regs.dx; col:=regs.cx;

row:=row;
col:=col;

If (row>=180) and (row<=225) and (col>=180) and (col<=460) then
    If regs.bx=1 then Search1;

If (row>=230) and (row<=275) and (col>=180) and (col<=460) then
    If regs.bx=1 then Search2;

If (row>=280) and (row<=325) and (col>=180) and (col<=460) then
    If regs.bx=1 then Search3;
Until keypressed;
readln (sCase);
Case sCase of
    '1':Search1;
    '2':Search2;
    '3':Search3;
End;
Gd:=Detect;
InitGraph(Gd,Gm,'C:\Tb\Egi\');
End;

{*****End Of
Search*****}

```

### **Procedure AddCheckOut;**

```

Begin
RestoreCrtMode;
ClrScr;
another:='y';
Assign(E,'West.txt');
Reset(E);
S:=filesize(E);
Seek (E,s+1);
While ( another='y') do
Begin
    ClrScr;
    TextColor(Green);
    GotoXY(14,4);
    WriteLn(' A D D C H E C K O U T W I N D O W');
    GotoXY(10,9);
    write('Type Book Name           : ');
    readln(Q.Bname);
    GotoXY(10,11);
    Write ('Type Author Name       : ');
    Readln(Q.Aname);

```

```

GotoXY(10,11);
Write('Type Student Name           :');
Readln(Q.Stname);
GotoXY(10,13);
Write('Type Student's ID Number     :');
Readln(Q.ID);
GotoXY(10,15);
Write('Type Taking date of this book(d-m-y) :');
Readln(Q.TDate);
GotoXY(10,17);
Write('Type Return date of This Book(d-m-y) :');
Readln(Q.RDate);
Write(E,Q);
TextColor(Red);
GotoXY(10,23);
Writeln(' Repeat Again (y/n) ');
Another:=Readkey;
end;
Cd:=Detect;
InitGraph(Gd,Gm,'C:\tp\bgi\');
End;

```

```

[*****End of Check out Add
*****]

```

#### **Procedure SearchCheckBook;**

```

begin
RestoreCrtMode;
Another:='y';
ClrScr;
assign(k,'west.txt');
Clrscr;
While (another='y') do
begin
ClrScr;
Reset(E);
TextColor(Green);
GotoXY(14,4);
Writeln(' S E A R C H   C H E C K   O U T   W I N D O W ');
GotoXY(14,9);
Write('Input Book Name to be searched : ');
Readln(n);
While Not eof(E) do
begin
read(E,Q);
If Q.Bname=n then
begin
ClrScr;
TextColor(Cyan);
GotoXY(14,4);
Writeln('S E A R C H   C H E C K   O U T   W I N D O W');
GotoXY(10,9);
Writeln(' Book Name :',Q.BName);
GotoXY(10,11);
Writeln(' Author Name :',Q.AName);

```

```

        GotoXY(10,16);
        Writeln(' Student Name :',Q.Stname);
        GotoXY(10,18);
        Writeln(' ID Number :',Q.ID);
        GotoXY(10,17);
        Writeln(' Taking Date of Book:',Q.TDate);
        GotoXY(10,19);
        Writeln(' Return date of book :',Q.RDate);
        end
    end;
    TextColor(100);
    GotoXY(10,23);
    Writeln(' Search Again?(Y/N) :');
    Another:=Readkey;
    ClrScr;
    end;
    Cd:=Detect;
    InitGraph(Gd,Gm,'C:\TP\Bgi\');
    end;

```

```

{*****End of Check Out Search By Book
Name*****}

```

**Procedure SearchCheckStudent;**

```

begin
RestoreCrtMode;
Another:='y';
ClrScr;
assign(E,'west.txt');
Clrscr;
While (another='y') do
begin
ClrScr;
Reset(E);
TextColor(Green);
GotoXY(6,4);
Writeln('S E A R C H   C H E C K   O U T   B Y   S T U D E N T   N A M E
N D O W ');
GotoXY(10,9);
Write('Input Student Name to be searched : ');
Readln(n);
While Not eof(E) do
begin
read(E,Q);
If Q.Stname=n then
begin
ClrScr;
TextColor(Cyan);
GotoXY(6,4);
Writeln('S E A R C H   C H E C K   O U T   B Y   S T U D E N T   N
E W I N D O W ');
GotoXY(10,9);
Writeln(' Book Name :',Q.BName);
GotoXY(10,11);

```

```

        Writeln(' Author Name :',Q.AName);
        GotoXY(10,13);
        Writeln(' Student Name :',Q.Stname);
        GotoXY(10,15);
        Writeln(' ID Number :',Q.ID);
        GotoXY(10,17);
        Writeln(' Taking Date of Book:',Q.Tdate);
        GotoXY(10,19);
        Writeln(' Return date of Book :',Q.RDate);
        end
end;
GotoXY(10,23);
TextColor(Red);
Writeln('Serach Again?(Y/N) :');
Another:=Readkey;
ClrScr;
end;
Gd:=Detect;
InitGraph(Gd,Gm,'C:\lp\Bgi\');
end;

{*****End Of Search Check Out By Student
Name*****}

```

**Procedure SearchCheckOut;**

```

Begin
Delay(100);
ClearDevice;
SetColor(Green);
SetTextStyle(3,0,3);
RectAngle(100,40,460,100);
OutTextXY(120,60,'CHECK OUT SEARCH MENU');
SetColor(Cyan);
RectAngle(100,120,460,380);

RectAngle(110,140,420,175);
OutTextXY(120,150,'By Book Name ');
RectAngle(110,195,420,230);
OutTextXY(120,200,'By Student Name ');
RectAngle(110,250,420,285);
OutTextXY(120,255,'[Ent] Main Menu');

regs.ax:=0;
with regs do
intr($33,regs);

regs.ax:=1;
with regs do
intr($33,regs);

repeat
regs.ax:=3;
with regs do
intr($33,regs);

```

```

row:=regs.dx;col:=regs.cx;

if(row>=140) and (row<=175) and (Col>=110) and (col<=420) then
    if regs.bx=1 then SearchCheckBook;

if(row>=195) and (row<=230) and (Col>=110) and (col<=420) then
    if regs.bx=1 then SearchCheckStudent;

Until keypressed;

End;

{***** End Of Search Check Out
Menu*****}

```

**Procedure CheckOut;**

```

Begin
ClearDevice;
SetTextStyle(3,0,3);
Rectangle(100,20,460,100);
SetColor(Green);
OutTextXY( 130,50,'CHECK - OUT MENU');
SetColor(Cyan);
Rectangle(100,120,460,380);

Rectangle(100,140,420,175);
OutTextXY(130,150,'[1]      Add Check Out :');
Rectangle(110,195,420,230);
OutTextXY(130,200,'[2]      Search Check Out :');
Rectangle(110,250,420,285);
OutTextXY(130,250,'[Ent]   Main Menu');

regs.ax:=0;
with regs do
    intr($33,regs);

regs.ax:=1;
with regs do
    intr($33,regs);

repeat
regs.ax:=3;
with regs do
    intr($33,regs);
row:=regs.dx;col:=regs.cx;

if(row>=140) and (row<=175) and (Col>=110) and (col<=420) then
    if regs.bx=1 then AddcheckOut;

if(row>=195) and (row<=230) and (Col>=110) and (col<=420) then
    if regs.bx=1 then SearchCheckOut;
Until keypressed;

```



```

readln (sCase);
Case sCase of
    '1':AddCheckOut;
    '2':SearchCheckOut;
End;
End;

;*****Check Out
Menu*****}

```

**Procedure AddCheckIn;**

```

Begin
RestoreCrtMode;
ClrScr;
another:='y';
Assign(I,'North.txt');
Reset(I);
S:=filesize(I);
Seek (I,s+1);
While ( another='y' ) or (Another='Y') do
Begin
Clrscr;
TextColor(Green);
GotoXY(20,4);
Writeln('A D D   C H E C K   I N   W I N D O W ');
TextColor(Cyan);
GotoXY(10,9);
write('Type Book Name : ');
readln(Q.Bname);
GotoXY(10,11);
Write ('Type Author Name : ');
Readln(Q.Aname);
GotoXY(10,13);
Write('Type Student Name :');
Readln(Q.Stname);
Gotoxy(10,15);
Write('Type Student''s ID Number:');
Readln(Q.ID);
GotoXY(10,17);
Write('Type Taking date of this book  :');
Readln(Q.TDate);
Gotoxy(10,19);
Write('Type Return date of This Book :');
Readln(Q.RDate);
Write(I,Q);
Gotoxy(10,23);
TextColor(Red);
Writeln(' Repeat Again (y/n) ');
Another:=Readkey;
end;
Gd:=detect;
InitGraph(Gd,Gm,'C:\tp\Egi\');
End;

```

```
{*****End of Check In Add  
*****}
```

**Procedure SearchCheckInBook;**

```
begin  
RestoreCrtMode;  
Another:='y';  
ClrScr;  
assign(I,'North.txt');  
Clrscr;  
While (another='y') do  
begin  
ClrScr;  
Reset(I);  
TextColor(Green);  
GotoXY(14,4);  
Writeln('S E A R C H C H E C K I N B Y B O O K N A M E');  
GotoXY(10,9);  
Write('Input Book Name to be searched : ');  
Readln(n);  
While Not eof(I) do  
begin  
read(E,Q);  
If Q.Bname=n then  
begin  
ClrScr;  
TextColor(Cyan);  
GotoXY(14,4);  
Writeln('S E A R C H C H E C K I N B Y B O O K N A M E');  
GotoXY(10,9);  
Writeln(' Book Name :',Q.BName);  
GotoXY(10,11);  
Writeln(' Author Name :',Q.AName);  
GotoXY(10,13);  
Writeln(' Student Name :',Q.Stname);  
GotoXY(10,15);  
Writeln(' ID Number :',Q.ID);  
GotoXY(10,17);  
Writeln(' Taking Date of Book:',Q.Tdate);  
GotoXY(10,19);  
Writeln(' Return date of Book :',Q.RDate);  
end  
end;  
TextColor(Red);  
GotoXY(10,23);  
Writeln('Serach Again?(Y/N) :');  
Another:=Readkey;  
ClrScr;  
end;  
Gd:=Detect;  
InitGraph(Gd,Gm,'C:\tp\Bgi\');  
end;
```

```
{*****End of Check In Search By Book  
Name*****}
```

**Procedure SearchCheckInStudent;**

```
begin  
PestoreCrtMode;  
Another:='y';  
ClrScr;  
assign(I,'North.txt');  
Clrscr;  
While (another='y') do  
begin  
ClrScr;  
Reset(I);  
TextColor(Green);  
GotoXY(14,4);  
Writeln('SEARCH CHECK IN BY STUDENT NAME');  
GotoXY(10,9);  
Write('Input Student Name to be searched : ');  
Readln(n);  
While Not eof(I) do  
begin  
read(I,Q);  
If Q.Stname=n then  
begin  
ClrScr;  
TextColor(Cyan);  
GotoXY(14,4);  
Writeln('SEARCH CHECK IN BY STUDENT NA  
E');  
GotoXY(10,9);  
Writeln(' Book Name :',Q.BName);  
GotoXY(10,11);  
Writeln(' Author Name :',Q.AName);  
GotoXY(10,13);  
Writeln(' Student Name :',Q.Stname);  
GotoXY(10,15);  
Writeln(' ID Number :',Q.ID);  
GotoXY(10,17);  
Writeln(' Taking Date of Book:',Q.Tdate);  
GotoXY(10,19);  
Writeln(' Return date of Book :',Q.RDate);  
end  
end;  
TextColor(Red);  
GotoXY(10,23);  
Writeln('Serach Again?(Y/N) :');  
Another:=Readkey;  
ClrScr;  
end;  
Gd:=Detect;  
InitGraph(Gd,Gm,'C:\tp\Bgi\');  
end;
```

**Procedure SearchCheckIn;**

```
Begin
ClearDevice;
SetColor(Green);
SetTextStyle(3,0,3);
RectAngle(100,20,460,100);
OutTextXY(130,50,'CHECK IN SEARCH MENU');
SetColor(Cyan);
SetTextStyle(3,0,2);
RectAngle(100,120,460,380);
RectAngle(110,140,420,175);
OutTextXY(130,150,'[1]      By Book  Name ');
RectAngle(110,195,420,230);
OutTextXY(130,200,'[2]      By Student Name ');
RectAngle(110,250,420,285);
OutTextXY(130,250,'[Ent]   Main Menu');

regs.ax:=0;
with regs do
  intr($33,regs);

regs.ax:=1;
with regs do
  intr($33,regs);

repeat
regs.ax:=3;
with regs do
  intr($33,regs);
row:=regs.dx;col:=regs.cx;

row:=row;
col:=col;
if(row>=140) and (row<=175) and (col>=110) and (col<=420) then
  if regs.bx=1 then SearchCheckBook;

if(row>=195) and (row<=230) and (col>=110) and (col<=420) then
  if regs.bx=1 then SearchCheckStudent;
Until keypressed;
readln (sCase);
Case sCase of
  '1':SearchCheckBook;
  '2':SearchCheckStudent;
End;
End;
```

**Procedure CheckIn;**

```
Begin
```

```

ClearDevice;
SetColor(Green);
SetTextStyle(3,0,4);
RectAngle(100,20,460,100);
OutTextXY(130,50, ' CHECK IN  MENU');
SetColor(Cyan);
SetTextStyle(3,0,2);
RectAngle(100,120,460,380);
SetColor(Red);
RectAngle(110,140,420,175);
OutTextXY(130,150, '[1]      Add Check In :');
RectAngle(110,195,420,230);
OutTextXY(130,200, '[2]      Search Check In :');
RectAngle(110,250,420,285);
OutTextXY(130,250, '[Ent]   Main Menu');

regs.ax:=0;
with regs do
  intr($33,regs);
regs.ax:=1;
with regs do
  intr($33,regs);

repeat
  regs.ax:=3;
  with regs do
    intr($33,regs);
  row:=regs.dx;col:=regs.cx;

  row:=row;
  col:=col;
  if(row>=140) and (row<=175) and (Col>=110) and (col<=420) then
    if regs.bx=1 then AddCheckIn;

  if(row>=195) and (row<=230) and (Col>=110) and (col<=420) then
    if regs.bx=1 then SearchCheckIn;
Until keypressed;

readln (sCase);
Case sCase of
  '1':AddCheckIn;
  '2':SearchCheckIn;
  End;
End;

{*****End of Check In
Menu*****}

Procedure AddDelete;
Begin
RestoreCrtMode;
ClrScr;
another:='y';

```

```

Assign(F,'South.txt');
Reset(F);
S:=filesize(F);
Seek (f,s#1);
While ( another='y') do
  Begin
    Clrscr;
    GotoXY(23,4);
    TextColor(Green);
    Writeln('A D D   D E L E T E   W I N D O W ');
    GotoXY(10,9);
    TextColor(Cyan);
    write('Type Book Name : ');
    readln(F.BookNames);
    GotoXy(10,11);
    Write ('Type Author Name : ');
    Readln(F.AuthorName);
    GotoXy(10,13);
    Write('Type Collection Date(dd-mm-yyyy) :');
    Readln(F.CollectionDate);
    GotoXy(10,15);
    Write('Type Price of This Book :');
    Readln(F.Price);
    GotoXY(10,17);
    Write('Type Description About This Book :');
    Readln(F.BookDescription);
    GotoXy(10,19);
    Write('Type Serial Number of This Book :');
    Readln(F.SerialNo);
    Write(F,P);
    GotoXY(10,23);
    TextColor(Red);
    Writeln(' Repeat Again (y/n) ');
    Another:=Readkey;
  end;
Gd:=Detect;
InitGraph(Gd,Gm,'C:\tp\Bgi');
end;

{*****End Of Add
Delete*****}

```

#### **Procedure SearchDelete;**

```

begin
RestoreCrtMode;
Another:='y';

regs.ax:=0; {For Displaying Mouse}
with regs do
intr($33,regs);
regs.ax:=1;
with regs do
intr($33,regs);

```

```

assign(F, 'South.txt');
Clrscr;
While (another='y') do
begin
ClrScr;
Reset(F);
GotoXY(14,4);
TextColor(Green);
Writeln('S E A R C H   D E L E T E       B Y   B O O K   N A M E ');
GotoXY(10,10);
Write('Input Book Name to be searched : ');
Readln(t);
While Not eof(f) do
begin
read(F,P);
If (P.BookNames=t) then
begin
GotoXY(14,4);
TextColor(Green);
Writeln('S E A R C H   D E L E T E       B Y   B O O K   N A M E   W
D O W ');
TextColor(Cyan);
GotoXY(10,9);
Writeln(' Book Name :',P.BookNames);
GotoXY(10,11);
Writeln(' Author Name :',P.AuthorName);
GotoXY(10,13);
Writeln(' Collection Date :',P.CollectionDate);
GotoXY(10,15);
Writeln(' Price :',P.Price);
GotoXY(10,17);
Writeln(' Book Serial NO:',P.SerialNo);
GotoXY(10,19);
Writeln(' Book Description :',P.BookDescription);
end;
end;
GotoXY(10,23);
TextColor(Red);
Writeln('Serach Again?(Y/N) :');
Another:=Readkey;
end;
Gd:=Detect;
InitGraph(Gd,Gm,'C:\tp\Bgi\');
end;

```

```

(*****End of Search
Delete*****)

```

#### **Procedure Delete;**

```

Begin
ClearDevice;
SetColor(Green);
SetTextStyle(3,0,3);
RectAngle(100,20,460,100);

```

```

OutTextXY(130,50,'DELETE MENU');
SetColor(Cyan);
SetTextStyle(3,0,2);
RectAngle(100,120,460,380);
RectAngle(110,140,420,175);
OutTextXY(130,150,' Add Delete ');
RectAngle(110,195,420,230);
OutTextXY(130,200,' Search Delete ');
RectAngle(110,250,420,285);
OutTextXY(130,250,'[Ent] Main Menu');

regs.ax:=0;
with regs do
  intr($33,regs);

regs.ax:=1;
with regs do
  intr($33,regs);

repeat
  regs.ax:=3;
  with regs do
    intr($33,regs);
  row:=regs.dx;col:=regs.cx;

  row:=row;
  col:=col;
  if(row>=140) and (row<=175) and (Col>=110) and (col<=420) then
    if regs.bx=1 then AddDelete;

  if(row>=195) and (row<=230) and (Col>=110) and (col<=420) then
    if regs.bx=1 then SearchDelete;
Until keypressed;
End;

```

**Procedure GetChoices;**

```

Begin
ClearDevice;
SetBkColor(Black);
SetColor(Cyan);
SetTextStyle(1,0,4);
RectAngle(100,5,450,90);
OutTextXY(140,40,'MAIN MENU');
RectAngle(100,100,450,450);
SetTextStyle(3,0,3);
RectAngle( 150,120,350,150);
OutTextXY(150,120,' 1. Introduction');
RectAngle(150,155,350,180);
OutTextXY(150,150,' 2. Inventory');
RectAngle(150,185,350,215);
OutTextXY(150,185,' 3. Add New');
RectAngle(150,220,350,255);

```



```
OutTextXY(150,215,' 4. Search ');
RectAngle(150,260,350,295);
OutTextXY(150,255,' 5. Check-In ');
RectAngle(150,300,350,335);
OutTextXY(150,295,' 6. Check Out');
RectAngle(150,340,350,375);
OutTextXY(150,340,' 7. Delete');
RectAngle(150,380,350,415);
OutTextXY(150,375,' 8. Exit');
```

```
regs.ax:=0;
with regs do
intr($33,regs);
regs.ax:=1;
with regs do
intr($33,regs);
```

```
repeat
regs.ax:=3;
with regs do
intr($33,regs);
row:=regs.dx;col:=regs.cx;
```

```
if(row>=120) and (row<=150) and (Col>=150) and (col<=350) then
    if regs.bx=1 then Introduction;
```

```
if(row>=155) and (row<=180) and (Col>=150) and (col<=350) then
    if regs.bx=1 then Inventory;
```

```
if(row>=185) and (row<=215) and (Col>=150) and (col<=350) then
    if regs.bx=1 then Add;
```

```
if(row>=220) and (row<=255) and (Col>=150) and (col<=350) then
    if regs.bx=1 then Search;
```

```
if(row>=260) and (row<=295) and (Col>=150) and (col<=350) then
    if regs.bx=1 then CheckIn;
```

```
if(row>=300) and (row<=335) and (Col>=150) and (col<=350) then
    if regs.bx=1 then CheckOut;
```

```
if(row>=340) and (row<=375) and (Col>=150) and (col<=350) then
    if regs.bx=1 then Delete;
```

```
if(row>=380) and (row<=415) and (Col>=150) and (col<=350) then
    if regs.bx=1 then Exit;
```

```
Until keypressed;
```

```
Choice:=Readkey;
```

```
Case Choice of
```

```
    '1': Introduction;
```

```
    '2': Inventory;
```

```
    '3': Add;
```

```
    '4': Search;
```

```

        '5':CheckIn;
        '6':CheckOut;
        '7':Delete;
        '8': Exit;
    end;

    {Randomize;
Repeat
PutPixel(Random(640),Random(480),Random(GetmaxColor));
Delay(10);
Until Keypress;
    }
end;

(Main)

Begin
gd:=Detect;
InitGraph (gd,gm,'C:\TP\BGI\');
CenterPoint:
if(row>=380) and (row<=415) and (Col>=150) and (col<=350) and
    (regs.bx=1) then
        Begin
        Exit;
        Goto Last;
        End;

Getchoices;
Goto CenterPoint;
Last:
Closegraph;
end.

```



*Deaccessed &  
Weeded*