MICRO-PROJECT PROGRAMMING IN C

Topic: Book issue system of library. Code→

Code→

```c
#include<stdio.h>

struct Lib

{

int RN,d,m,y,c;

char N[20];

char D[20];

char B[20];

char G[10];


};

int main()

{

struct Lib a;

int n;

FILE *f1;


printf("\n\n\t***************************************************************\n\n");

printf("\t\t\tBOOK ISSUE SYSTEM OF LIBRARY");

printf("\n\n\t***************************************************************\n\n");

do{

printf("\n\n\t\t\tEnter 1 : Save Student Info.\n");

printf("\t\t\tEnter 2 : Display All Books issued\n");

printf("\t\t\tEnter 3 : Exit\n");

printf("\n\t\t\t**Enter Valid input**\n");

printf("\n\t\tEnter:");

scanf("%d",&n);

switch(n)

{

case 1:

f1=fopen("C:/Users/AYUSH/Desktop/MCP-PIC/libr.dat","ab");

if(f1==NULL)

{

printf("File not Exist");

break;
```

```c
}
else
{
printf("\t\t\t\t\tRoll Number:");
scanf("%d",&a.RN);
printf("\t\t\t\t\tStudent Name:");
scanf("%s",a.N);
printf("\t\t\t\t\tDepartment:");
scanf("%s",a.D);
printf("\t\t\t\t\tBook issued:");
scanf("%s",a.B);
printf("\t\t\t\t\tGenre:");
scanf("%s",a.G);
printf("\t\t\t\t\tEnter Today's date (in dd mm yy format):");
scanf("%d%d%d",&a.d,&a.m,&a.y);


fwrite(&a,sizeof(a),1,f1);
fclose(f1);
printf("\t\tRecord Saved!!\n");

break;
}

case 2:
f1=fopen("C:/Users/AYUSH/Desktop/MCP-PIC/libr.dat","rb");
if(f1==NULL)
{
printf("\t\tFile Not Exist\n");
break;
}
else
{
while(fread(&a,sizeof(a),1,f1))
{
printf("\n\t\t\t\tRoll Number: %d",a.RN);
printf("\n\t\t\t\tStudent Name: %s",a.N);
printf("\n\t\t\t\tDepartment: %s",a.D);
```

```c
printf("\n\t\t\t\tBook issued: %s",a.B);

printf("\n\t\t\t\tGenre: %s",a.G);

printf("\t\t\t\tIssued Date:%d/%d/%d\n\n\n",a.d,a.m,a.y);


}

fclose(f1);

break;

}

case 3:

printf("\t\tPress any Key to Exit....\n");

break;

default:

printf("Invalid Input...\n");

}

}

while(n!=3);

return(0);

}
```
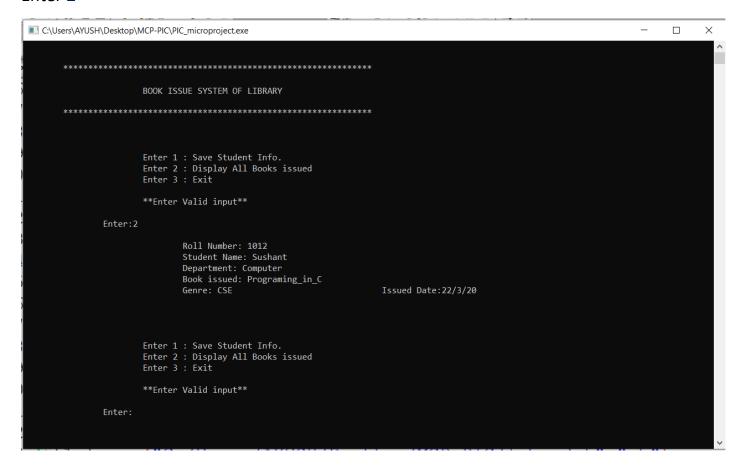
Output:

Enter **1**

Enter **2**


```
C:\Users\AYUSH\Desktop\MCP-PIC\PIC_microproject.exe                    —    □    ×

    ***********************************************************

                    BOOK ISSUE SYSTEM OF LIBRARY

    ***********************************************************


                    Enter 1 : Save Student Info.
                    Enter 2 : Display All Books issued
                    Enter 3 : Exit

                    **Enter Valid input**

            Enter:2

                            Roll Number: 1012
                            Student Name: Sushant
                            Department: Computer
                            Book issued: Programing_in_C
                            Genre: CSE                          Issued Date:22/3/20



                    Enter 1 : Save Student Info.
                    Enter 2 : Display All Books issued
                    Enter 3 : Exit

                    **Enter Valid input**

            Enter:
```

Enter **3**


```
C:\Users\AYUSH\Desktop\MCP-PIC\PIC_microproject.exe                    —    □    ×

    ***********************************************************

                    BOOK ISSUE SYSTEM OF LIBRARY

    ***********************************************************



                    Enter 1 : Save Student Info.
                    Enter 2 : Display All Books issued
                    Enter 3 : Exit

                    **Enter Valid input**

            Enter:3
            Press any Key to Exit....

Process returned 0 (0x0)   execution time : 2.496 s
Press any key to continue.
■
```