

Certificate

This is to certify that the project entitled
Book Store Computerized System
is prepared under my guidance and supervision by

NAME:-

ROLL NUMBER:

CLASS: XII E/F

SUBJECT: COMPUTER SCIENCE

SESSION:2016 – 2017

SUBMITTED TO: - Ms.Pallavi Sharma

SIGNATURE: -

Acknowledgment

I extend my deep sense of gratitude and sincere thanks to our subject teacher Ms Pallavi Sharma for her valuable support and guidance in carrying my project work.

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```
#include<fstream.h>
#include<stdio.h>
#include<conio.h>
class book
{
    int bno;
    char bname[30],author[30],pub[30];
    float price;
public:
    void gdata();
    void pdata();
    void read_nameprice();
    int getbno();
};
void book::gdata()
{
    cout<<"\n Enter the book number (only integer)=";
    cin>>bno;
    cout<<"\n Enter the book name=";
    gets(bname);
    cout<<"\n Enter the book author name=";
    gets(author);
    cout<<"\n Enter the book publishr=";
    gets(pub);
```

```

cout<<"\n Enter the price=";

cin>>price;

}

void book::pdata()

{

cout<<"\n\n\t\t Book Number="<<bno;

cout<<"\n\t\t Book Name="<<bname;

cout<<"\n\t\t Book Author name="<<author;

cout<<"\n\t\t Book Publisher="<<pub;

cout<<"\n\t\t Price="<<price;

cout<<"\n"<<"-----";

}

void book::read_nameprice() //used when modifying details

{

cout<<"\n Enter Book name=";

gets(bname);

cout<<"\n Enter the book author name=";

gets(author);

cout<<"\n Enter the book publishr=";

gets(pub);

cout<<"\n Enter Price=";

cin>>price;

}

int book::getbno()

{

```

```

    return bno;
}

void search(int bno)
{
    book b;

    int flag=0;

    fstream fin("book.dat",ios::in|ios::binary);

    if(fin==NULL)
    { cout<<"\n File does not exists.";
      return;
    }

    while(fin.read((char*)&b, sizeof(b)))
    { if(bno==b.getbno())
      { cout<<"\n Book Details are as follows-->\n\n";
        b.pdata();
        flag=1;

        break;
      }
    }

    if(flag==0)
    cout<<"\n\n Book no does not exists.";

    fin.close();
}

void insert(book bt)

```

```
{
    book b;
    int p=0, c=1, i, ec;
    ifstream fin("book.dat", ios::in | ios::binary);
    while(fin.read((char*) &b, sizeof(b)))
    {
        p++;
        if(bt.getbno() <=b.getbno())
            break;
    }
    fin.close();
    if(bt.getbno()>b.getbno()) // to check if it is to be inserted at the end
        p++;
    fin.open("book.dat", ios::in | ios::binary);
    ofstream fout("temp.dat", ios::out | ios::binary);
    while(c<p)
    {
        fin.read((char*)&b, sizeof(book));
        fout.write((char*)&b, sizeof(book));
        c++;
    }
    fout.write((char*)&bt, sizeof(book));
    while(fin.read((char*)&b, sizeof(book)))
    { fout.write((char*)&b, sizeof(book));
    }
}
```

```
    fin.close();
    fout.close();
    remove("book.dat");
    rename("temp.dat", "book.dat");
}

void Delet(int bno)
{
    book b;
    int flag=0;
    fstream fi("book.dat", ios::in|ios::binary);
    if(fi==NULL)
    { cout<<"\n file does not exists";
      return;
    }
    fstream fout("temp.dat", ios::out|ios::binary);
    while(fi.read((char*)&b, sizeof(book)))
    { if(bno!=b.getbno())
      {
          fout.write((char*)&b, sizeof(book));
      }
      else
      {
          flag=1;
      }
    }
    if(flag==0)
    {
        cout<<"\n book number does not exists";
    }
    else
    {
        cout<<"\n Record deleted";
    }
}
```

```

fi.close();

fout.close();

remove("book.dat");

rename("temp.dat","book.dat");
}

void modify(int bno)
{
    book b;

    int flag=0, rec=0;

    fstream fin("book.dat", ios::in|ios::out|ios::binary);

    if(fin==NULL)

        { cout<<"\n File does not exists";

            return;

        }

    while(fin.read((char*)&b, sizeof(book)))

        {

            rec++;

            if(bno==b.getbno())

                { cout<<"\n book details are as follows-->";

                    b.pdata();

                    cout<<"\n Enter the new details-->\n";

                    b.read_nameprice();

                    fin.seekg((rec-1)*sizeof(book), ios::beg);//placing file pointer at previously read recoed, which
is being modified

                    fin.write((char*)&b, sizeof(book));

                    flag=1;

```



```
        break;
    }
}
if(flag==0)
    cout<<"\n book no does not exists";
else
    cout<<"\n record modified";
fin.close();
}
void display_bookfile()
{
    book b;
    ifstream fin("book.dat", ios::in|ios::binary);
    if(fin==NULL)
    { cout<<"\n File does not exists";
      return;
    }
    clrscr();
    cout<<"\n\n Book details are as follows-->";
    while(fin.read((char*)&b, sizeof(book)))
    {
        b.pdata();
    }
    fin.close();
}
```



```
        search(bn);
        break;
case 3: cout<<"\n Enter the book number to be deleted=";
        cin>>bn;
        Delet(bn);
        break;
case 4: cout<<"\n Enter the book number to be modified=";
        cin>>bn;
        modify(bn);
        break;
case 5: display_bookfile();
        break;
case 0: cout<<"\n\n\n\nclosing database.....";
        break;
}
getch();
}
while(choice>=1 && choice<=5);
getch();
}
```

OUTPUT

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice... 1

Enter the details of student record to be added=

Enter the book number (only integer)=6

Enter the book name=arihant

Enter the book author name=arihant

Enter the book publishr=navdeep

Enter the price=245

record added

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice...5

Book details are as follows-->

Book Number=1

Book Name=computer science C++

Book Author name=sumita

Book Publisher=dhanpat rai

Price=300

Book Number=2

Book Name=together

Book Author name=rita sahuo

Book Publisher=rachna sagar

Price=350

Book Number=3

Book Name=move fast

Book Author name=sumita arora

Book Publisher=dhanpat rai

Price=260

Book Number=4

Book Name=question bank

Book Author name=sumita arora

Book Publisher=dhanpat rai

Price=280

Book Number=6

Book Name=arihant

Book Author name=arihant

Book Publisher=navdeep

Price=245

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice... 2

Enter the book number to be serached=1

Book Details are as follows-->

Book Number=1

Book Name=computer science C++

Book Author name=sumita

Book Publisher=dhanpat rai

Price=300

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice... 3

Enter the book number to be deleted= 6

Record deleted

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice... 5

Book details are as follows-->

Book Number=1

Book Name=computer science C++

Book Author name=sumita

Book Publisher=dhanpat rai

Price=300

Book Number=2

Book Name=together

Book Author name=rita sahuo

Book Publisher=rachna sagar

Price=350

Book Number=3

Book Name=move fast

Book Author name=sumita arora

Book Publisher=dhanpat rai

Price=260

Book Number=4

Book Name=question bank

Book Author name=sumita arora

Book Publisher=dhanpat rai

Price=280

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice... 4

Enter the book number to be modified=4

book details are as follows-->

Book Number=4
Book Name=question bank
Book Author name=sumita arora
Book Publisher=dhanpat rai
Price=280

Enter the new details-->

Enter Book name=PYTHON

Enter the book author name=SUMITA ARORA

Enter the book publishr=DHANPAT RAI

Enter Price=290

record modified

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice... 5

Book details are as follows-->

Book Number=1

Book Name=computer science C++

Book Author name=sumita

Book Publisher=dhanpat rai

Price=300

Book Number=2

Book Name=together

Book Author name=rita sahoo

Book Publisher=rachna sagar

Price=350

Book Number=3

Book Name=move fast

Book Author name=sumita arora

Book Publisher=dhanpat rai

Price=260

Book Number=4

Book Name=PYTHON

Book Author name=SUMITA ARORA

Book Publisher=DHANPAT RAI

Price=290

BOOK STORE SYSTEM

1. Insert
2. Search
3. Delete
4. Modify
5. Display All
0. Exit

Enter your choice... 0

closing database.....