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|  | **G. H. RAISONI COLLEGE OF ENGINEERING & MANAGEMENT, WAGHOLI, PUNE**  **(An Autonomous Institute Affiliated to SPPU)** |

**Department of Information Technology**

**TAE-2**

**Subject:** **OBJECT ORIENTED PROGRAMMING**

**Mini Project Report On**

“**BOOK RENTAL PROGRAM**”

**Academic Year 2022-23**

**Semester-III**

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|  | **G. H. RAISONI COLLEGE OF ENGINEERING & MANAGEMENT, WAGHOLI, PUNE (An Autonomous Institute Affiliated to SPPU)** |

**Department of Information Technology**

**Academic Year 2022-23**

**Semester-III**

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**CERTIFICATE**

This is to certify that C++ mini project on **“Book Rental”** embodies the original work done by **Mr. Aadesh Shende, Mr. Adnan Tamboli, Mr. Om Suryawanshi And Mr. Vedant Zope** duringproject submission as a partial fulfilment of the requirement for the Mini Project in subject Object Oriented Programming of B.Tech. Semester III, of Pune University during the academic year 2022-2023.

**Date:01-12-2022**

**Place:** Pune

**Project Guide Head of Department**

**(Prof. Priya Ujawe ) (Dr. Poonam Gupta)**

# 

# 

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1. **ABSTRACT**

Book Rental program is a standard program to distinguish different category of books in organized form for user. It makes user easy to separate different category of books to choose of their interest and rent them easily based on their price. The program also has an option to rent books for a specific period of time. This program is written in C++ language.

1. **INTRODUCTION**

**Library was invented in about 7th century B.C. and since then it has been evolving day by day. Many book are being written and published. Now in 21st century we have many different categories and type of books. In our program below we have tried to categorize and organize different categories and their books so that users may find it easy to choose and rent them. For this we are going to use some interesting functions of C++ like Function, Multiple Inheritance, Constructor, and File Handling**

1. **Objective**

* The goal of Book Rental Program is to differentiate books according to their category.
* It can also be used to store data for renting of books.
* Books can be given on rent for various amount of days.

**Code :-**

#include<iostream>

#include <fstream>

using namespace std;

class MyClass {

public:

void myFunction() {

string myText5;

ifstream MyReadFile5("Sci-fi books.txt");

while (getline (MyReadFile5, myText5)) {

cout << myText5;

}

MyReadFile5.close();

int a;

cout<<"\nenter the code :";

cin>>a;

if(a==1)

{

cout<<" The Rent According to your choice for A song of Ice and Fire - R.R.Martin is 20\n";

}else if(a==2)

{

cout<<"The Rent According to your choice for Mars Triology - Kim Stanley Robinson is 20\n";

}else if(a==3)

{

cout<<"The Rent According to your choice for Honorverse – David Webber is 20\n";

}else if(a==4)

{

cout<<"The Rent According to your choice for Void Triology – Peter F. Hamilton is 20\n";

}else if(a==5)

{

cout<<"The Rent According to your choice for The peal saga – Eric Van Eric Van Lust blader is 20\n";

}else if(a==6)

{

cout<<"The Rent According to your choice for Dune – Frank Herbert is 20\n";

}else if(a==7)

{

cout<<"The Rent According to your choice for Harry Potter – J.K.Rowling is 20\n";

}else if(a==8 )

{

cout<<"The Rent According to your choice for Space odyssey – Arthur C. Clarke is 20\n";

}else if(a==9)

{

cout<<" The Rent According to your choice for The Hobbit – J R. R. Tolken is 20\n";

}else if(a==10)

{

cout<<"The Rent According to your choice for The Lord of The Rings – J R. R. Tolken is 20\n";

}else

{

cout<<"\n";

}}

};

// Another base class

class MyOtherClass1 {

public:

void myOtherFunction1() {

string myText6;

ifstream MyReadFile6("Fiction.txt");

while (getline (MyReadFile6, myText6)) {

cout << myText6;

}

MyReadFile6.close();

int b;

cout<<"\nenter the code :";

cin>>b;

if(b==1)

{

cout<<"The Rent According to your choice for Dracula – Bram Stoker is 20\n";

}else if(b==2)

{

cout<<"The Rent According to your choice for The Colour Purple – Alice Walker is 20\n";

}else if(b==3)

{

cout<<"The Rent According to your choice for Ender’s game – Orson Scott is 20\n";

}else if(b==4)

{

cout<<"The Rent According to your choice for Lord of the files – William Golding is 20\n";

}else if(b==5)

{

cout<<"The Rent According to your choice for Lolita – Vladimir Nabokou is 20\n";

}else if(b==6)

{

cout<<"The Rent According to your choice for The namesake – Jhumpa Lahari is 20\n";

}else if(b==7)

{

cout<<"The Rent According to your choice for Frankenstein – Marry Shelley 20\n";

}else if(b==8 )

{

cout<<"The Rent According to your choice for Home going – Yaa Gyasi is 20\n";

}else if(b==9)

{

cout<<"The Rent According to your choice for In Cold Blood – Truman Capate is 20\n";

}else if(b==10)

{

cout<<"The Rent According to your choice for Kindered – Octiv Butler is 20\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass2 {

public:

void myOtherFunction2() {

string myText7;

ifstream MyReadFile7("Story.txt");

while (getline (MyReadFile7, myText7)) {

cout << myText7;

}

MyReadFile7.close();

int c;

cout<<"\nenter the code :";

cin>>c;

if(c==1)

{

cout<<" The Rent According to your choice for Cinderella is 20\n";

}else if(c==2)

{

cout<<"The Rent According to your choice for Ramayan is 20\n";

}else if(c==3)

{

cout<<" The Rent According to your choice for My Bed Time stories is 20\n";

}else if (c==4)

{

cout<<"The Rent According to your choice for The Jungle Book is 20\n";

}else if (c==5)

{

cout<<"The Rent According to your choice for Tale of Peter Rabit is 20\n";

}else if(c==6)

{

cout<<" The Rent According to your choice for Akbar Birbal is 20\n";

}else if(c==7)

{

cout<<" The Rent According to your choice for Knuffle Bunny is 20\n";

}else if(c==8 )

{

cout<<" The Rent According to your choice for The Blue Umbrella is 20\n";

}else if(c==9)

{

cout<<" The Rent According to your choice for Ruskin Bond is 20\n";

}else if(c==10)

{

cout<<" The Rent According to your choice for Dreamland is 20\n";

}else

{

cout<<"\n";

} }

};

class MyOtherClass3 {

public:

void myOtherFunction3() {

string myText8;

ifstream MyReadFile8("Comedy.txt");

while (getline (MyReadFile8, myText8)) {

cout << myText8;

}

MyReadFile8.close();

int d;

cout<<"\nenter the code :";

cin>>d;

if(d==1)

{

cout<<"The Rent According to your choice for Lamb – Cristopher Moore is 20\n";

}else if(d==2)

{

cout<<" The Rent According to your choice for Good Omens –Neil Gaiman is 20\n";

}else if(d==3)

{

cout<<"The Rent According to your choice for Bossy Pants – Tina Frey is 20\n";

}else if(d==4)

{

cout<<" The Rent According to your choice forCatch zz – Joseph Heller is 20\n";

}else if(d==5)

{

cout<<" The Rent According to your choice for Cold Comfortable Farm – Stella Gibbons is 20\n";

}else if(d==6)

{

cout<<" The Rent According to your choice for The Sellout – Paul Beatty is 20\n";

}else if(d==7)

{

cout<<" The Rent According to your choice forBig Trouble –Dave Barry is 20\n";

}else if(d==8 )

{

cout<<" The Rent According to your choice for Vearbook – Seth Rogen is 20\n";

}else if(d==9)

{

cout<<"The Rent According to your choice for Cruel Shoes – Steve Martin is 20\n";

}else if(d==10)

{

cout<<" The Rent According to your choice for Lucky Jim – Kingaley Amis is 20\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass4 {

public:

void myOtherFunction4() {

string myText9;

ifstream MyReadFile9("Adventure.txt");

while (getline (MyReadFile9, myText9)) {

cout << myText9;

}

MyReadFile9.close();

int e;

cout<<"\nenter the code :";

cin>>e;

if(e==1)

{

cout<<" The Rent According to your choice for Treasure Island – Robert Stevenson is 20\n";

}else if(e==2)

{

cout<<" The Rent According to your choice for Odyssey – Homer is 20\n";

}else if(e==3)

{

cout<<" The Rent According to your choice for Life of pi – Yann Martel is 20\n";

}else if(e==4)

{

cout<<" The Rent According to your choice for The Lost World – Arthur Conan is 20\n";

}else if(e==5)

{

cout<<" The Rent According to your choice for White Fang – Jack London is 20\n";

}else if(e==6)

{

cout<<" The Rent According to your choice for The Three Muskiteers – Alexander Dumas is 20\n";

}else if(e==7)

{

cout<<" The Rent According to your choice for The Jungle Book – Rudyard Kilping is 20\n";

}else if(e==8 )

{

cout<<" The Rent According to your choice for Into the Wild – Jon Krakuer is 20\n";

}else if(e==9)

{

cout<<" The Rent According to your choice forThrone of Grass – Sarah J. Maas is 20\n";

}else if(e==10)

{

cout<<" The Rent According to your choice for Stardust – Neil Gaiman is 20\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass5 {

public:

void myOtherFunction5() {

string myText10;

ifstream MyReadFile10("Sci-fi books.txt");

while (getline (MyReadFile10, myText10)) {

cout << myText10;

}

MyReadFile10.close();

int f;

cout<<"\nenter the code :";

cin>>f;

if(f==1)

{

cout<<"The Rent According to your choice for A song of Ice and Fire - R.R.Martin is 100\n";

}else if(f==2)

{

cout<<"The Rent According to your choice for Mars Triology - Kim Stanley Robinson is 100\n";

}else if(f==3)

{

cout<<"The Rent According to your choice for Honorverse – David Webber is 100\n";

}else if(f==4)

{

cout<<"The Rent According to your choice for Void Triology – Peter F. Hamilton is 100\n";

}else if(f==5)

{

cout<<"The Rent According to your choice for The peal saga – Eric Van Eric Van Lust blader is 100\n";

}else if(f==6)

{

cout<<" The Rent According to your choice for Dune – Frank Herbert is 100\n";

}else if(f==7)

{

cout<<"The Rent According to your choice for Harry Potter – J.K.Rowling is 100\n";

}else if(f==8 )

{

cout<<"The Rent According to your choice for Space odyssey – Arthur C. Clarke is 100\n";

}else if(f==9)

{

cout<<"The Rent According to your choice for The Hobbit – J R. R. Tolken is 100\n";

}else if(f==10)

{

cout<<" The Rent According to your choice for The Lord of The Rings – J R. R. Tolken is 100\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass6 {

public:

void myOtherFunction6() {

string myText11;

ifstream MyReadFile11("Fiction.txt");

while (getline (MyReadFile11, myText11)) {

cout << myText11;

}

MyReadFile11.close();

int g;

cout<<"\nenter the code :";

cin>>g;

if(g==1)

{

cout<<"The Rent According to your choice for Dracula – Bram Stoker is 100\n";

}else if(g==2)

{

cout<<"The Rent According to your choice for The Colour Purple – Alice Walker is 100\n";

}else if(g==3)

{

cout<<" The Rent According to your choice for Ender’s game – Orson Scott is 20\n";

}else if(g==4)

{

cout<<" The Rent According to your choice for Lord of the files – William Golding is 100\n";

}else if(g==5)

{

cout<<" The Rent According to your choice for Lolita – Vladimir Nabokou is 100\n";

}else if(g==6)

{

cout<<" The Rent According to your choice for The namesake – Jhumpa Lahari is 100\n";

}else if(g==7)

{

cout<<" The Rent According to your choice for Frankenstein – Marry Shelley is 100\n";

}else if(g==8 )

{

cout<<" The Rent According to your choice for Home going – Yaa Gyasi is 100\n";

}else if(g==9)

{

cout<<"The Rent According to your choice for In Cold Blood – Truman Capate is 100\n";

}else if(g==10)

{

cout<<" The Rent According to your choice for Kindered – Octiv Butler is 100\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass7 {

public:

void myOtherFunction7() {

string myText12;

ifstream MyReadFile12("Story.txt");

while (getline (MyReadFile12, myText12)) {

cout << myText12;

}

MyReadFile12.close();

int h;

cout<<"\nenter the code :";

cin>>h;

if(h==1)

{

cout<<" The Rent According to your choice for Cinderella is 100\n";

}else if(h==2)

{

cout<<" The Rent According to your choice for Ramayan is 100\n";

}else if(h==3)

{

cout<<" The Rent According to your choice for My Bed Time stories is 100\n";

}else if(h==4)

{

cout<<" The Rent According to your choice for The Jungle Book is 100\n";

}else if(h==5)

{

cout<<"The Rent According to your choice for Tale of Peter Rabit is 100\n";

}else if(h==6)

{

cout<<"The Rent According to your choice for Akbar Birbal is 100\n";

}else if(h==7)

{

cout<<" The Rent According to your choice for Knuffle Bunny is 100\n";

}else if(h==8 )

{

cout<<" The Rent According to your choice for The Blue Umbrella is 100\n";

}else if(h==9)

{

cout<<"The Rent According to your choice for Ruskin Bond is 100\n";

}else if(h==10)

{

cout<<"The Rent According to your choice for Dreamland is 100\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass8 {

public:

void myOtherFunction8() {

string myText13;

ifstream MyReadFile13("Comedy.txt");

while (getline (MyReadFile13, myText13)) {

cout << myText13;

}

MyReadFile13.close();

int i;

cout<<"\nenter the code :";

cin>>i;

if(i==1)

{

cout<<" The Rent According to your choice for Lamb – Cristopher Moore is 100\n";

}else if(i==2)

{

cout<<" The Rent According to your choice for Good Omens –Neil Gaimanis 100\n";

}else if(i==3)

{

cout<<" The Rent According to your choice for Bossy Pants – Tina Frey is 100\n";

}else if(i==4)

{

cout<<"The Rent According to your choice for Catch zz – Joseph Heller is 100\n";

}else if(i==5)

{

cout<<" The Rent According to your choice for Cold Comfortable Farm – Stella Gibbons is 100\n";

}else if(i==6)

{

cout<<" The Rent According to your choice forThe Sellout – Paul Beatty is 100\n";

}else if(i==7)

{

cout<<" The Rent According to your choice for Big Trouble –Dave Barry is 100\n";

}else if(i==8 )

{

cout<<"The Rent According to your choice for Vearbook – Seth Rogen is 100\n";

}else if(i==9)

{

cout<<" The Rent According to your choice for Cruel Shoes – Steve Martin is 100\n";

}else if(i==10)

{

cout<<"The Rent According to your choice for Lucky Jim – Kingaley Amis is 100\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass9 {

public:

void myOtherFunction9() {

string myText14;

ifstream MyReadFile14("Adventure.txt");

while (getline (MyReadFile14, myText14)) {

cout << myText14;

}

MyReadFile14.close();

int j;

cout<<"\nenter the code :";

cin>>j;

if(j==1)

{

cout<<" The Rent According to your choice for Treasure Island – Robert Stevenson is 100\n";

}else if(j==2)

{

cout<<" The Rent According to your choice for Odyssey – Homeris 100\n";

}else if(j==3)

{

cout<<" The Rent According to your choice forLife of pi – Yann Martel is 100\n";

}else if(j==4)

{

cout<<" The Rent According to your choice for The Lost World – Arthur Conan is 100\n";

}else if(j==5)

{

cout<<" The Rent According to your choice for White Fang – Jack London is 100\n";

}else if(j==6)

{

cout<<" The Rent According to your choice for The Three Muskiteers – Alexander Dumas is 100\n";

}else if(j==7)

{

cout<<" The Rent According to your choice forThe Jungle Book – Rudyard Kilping is 100\n";

}else if(j==8 )

{

cout<<" The Rent According to your choice for Into the Wild – Jon Krakuer is 100\n";

}else if(j==9)

{

cout<<" The Rent According to your choice for Throne of Grass – Sarah J. Maas is 100\n";

}else if(j==10)

{

cout<<" The Rent According to your choice for Stardust – Neil Gaiman is 100\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass10 {

public:

void myOtherFunction10() {

string myText15;

ifstream MyReadFile15("Sci-fi books.txt");

while (getline (MyReadFile15, myText15)) {

cout << myText15;

}

MyReadFile15.close();

int k;

cout<<"\nenter the code :";

cin>>k;

if(k==1)

{

cout<<"The Rent According to your choice for A song of Ice and Fire - R.R.Martin is 200\n";

}else if(k==2)

{

cout<<"The Rent According to your choice for Mars Triology - Kim Stanley Robinson is 200\n";

}else if(k==3)

{

cout<<"The Rent According to your choice for Honorverse – David Webber is 200\n";

}else if(k==4)

{

cout<<"The Rent According to your choice for Void Triology – Peter F. Hamilton is 200\n";

}else if(k==5)

{

cout<<"The Rent According to your choice for The peal saga – Eric Van Eric Van Lust blader is 200\n";

}else if(k==6)

{

cout<<"The Rent According to your choice for Dune – Frank Herbert is 200\n";

}else if(k==7)

{

cout<<"The Rent According to your choice for Harry Potter – J.K.Rowling is 200\n";

}else if(k==8 )

{

cout<<"The Rent According to your choice for Space odyssey – Arthur C. Clarke is 200\n";

}else if(k==9)

{

cout<<"The Rent According to your choice for The Hobbit – J R. R. Tolken is 200\n";

}else if(k==10)

{

cout<<"The Rent According to your choice for The Lord of The Rings – J R. R. Tolken is 200\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass11 {

public:

void myOtherFunction11() {string myText16;

ifstream MyReadFile16("Fiction.txt");

while (getline (MyReadFile16, myText16)) {

cout << myText16;

}

MyReadFile16.close();

int l;

cout<<"\nenter the code :";

cin>>l;

if(l==1)

{

cout<<"The Rent According to your choice for Dracula – Bram Stoker is 200\n";

}else if(l==2)

{

cout<<"The Rent According to your choice for The Colour Purple – Alice Walker is 200\n";

}else if(l==3)

{

cout<<" The Rent According to your choice for Ender’s game – Orson Scott is 200\n";

}else if(l==4)

{

cout<<" The Rent According to your choice for Lord of the files – William Golding is 200\n";

}else if(l==5)

{

cout<<" The Rent According to your choice for Lolita – Vladimir Nabokou is 200\n";

}else if(l==6)

{

cout<<"The Rent According to your choice for The namesake – Jhumpa Lahari is 200\n";

}else if(l==7)

{

cout<<"The Rent According to your choice for Frankenstein – Marry Shelley is 200\n";

}else if(l==8 )

{

cout<<"The Rent According to your choice for Home going – Yaa Gyasi is 200\n";

}else if(l==9)

{

cout<<" The Rent According to your choice for In Cold Blood – Truman Capate is 200\n";

}else if(l==10)

{

cout<<" The Rent According to your choice for Kindered – Octiv Butler is 200\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass12 {

public:

void myOtherFunction12() {string myText17;

ifstream MyReadFile17("Story.txt");

while (getline (MyReadFile17, myText17)) {

cout << myText17;

}

MyReadFile17.close();

int m;

cout<<"\nenter the code :";

cin>>m;

if(m==1)

{

cout<<"The Rent According to your choice for Cinderella is 200\n";

}else if(m==2)

{

cout<<"The Rent According to your choice for Ramayan is 200\n";

}else if(m==3)

{

cout<<" The Rent According to your choice for My Bed Time stories is 200\n";

}else if(m==4)

{

cout<<" The Rent According to your choice for The Jungle Book is 200\n";

}else if(m==5)

{

cout<<" The Rent According to your choice for Tale of Peter Rabit is 200\n";

}else if(m==6)

{

cout<<"The Rent According to your choice for Akbar Birbal is 200\n";

}else if(m==7)

{

cout<<" The Rent According to your choice for Knuffle Bunny is 200\n";

}else if(m==8 )

{

cout<<" The Rent According to your choice for The Blue Umbrella is 200\n";

}else if(m==9)

{

cout<<" The Rent According to your choice for Ruskin Bond is 200\n";

}else if(m==10)

{

cout<<" The Rent According to your choice for Dreamland is 200\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass13 {

public:

void myOtherFunction13() {string myText18;

ifstream MyReadFile18("Comedy.txt");

while (getline (MyReadFile18, myText18)) {

cout << myText18;

}

MyReadFile18.close();

int n;

cout<<"\nenter the code :";

cin>>n;

if(n==1)

{

cout<<"The Rent According to your choice for Lamb – Cristopher Moore is 200\n";

}else if(n==2)

{

cout<<" The Rent According to your choice for Good Omens –Neil Gaiman is 200\n";

}else if(n==3)

{

cout<<" The Rent According to your choice for Bossy Pants – Tina Frey is 200\n";

}else if(n==4)

{

cout<<" The Rent According to your choice for Catch zz – Joseph Heller is 200\n";

}else if(n==5)

{

cout<<" The Rent According to your choice for Cold Comfortable Farm – Stella Gibbons is 200\n";

}else if(n==6)

{

cout<<"The Rent According to your choice for The Sellout – Paul Beatty is 200\n";

}else if(n==7)

{

cout<<" The Rent According to your choice for Big Trouble –Dave Barry is 200\n";

}else if(n==8 )

{

cout<<"The Rent According to your choice for Vearbook – Seth Rogen is 200\n";

}else if(n==9)

{

cout<<"The Rent According to your choice for Cruel Shoes – Steve Martin is 200\n";

}else if(n==10)

{

cout<<" The Rent According to your choice for Lucky Jim – Kingaley Amis is 200\n";

}else

{

cout<<"\n";

}}

};

class MyOtherClass14 {

public:

void myOtherFunction14() {

string myText19;

ifstream MyReadFile19("Adventure.txt");

while (getline (MyReadFile19, myText19)) {

cout << myText19;

}

MyReadFile19.close();

int o;

cout<<"\nenter the code :";

cin>>o;

if(o==1)

{

cout<<"The Rent According to your choice for Treasure Island – Robert Stevenson is 200\n";

}else if(o==2)

{

cout<<" The Rent According to your choice for Odyssey – Homer is 200\n";

}else if(o==3)

{

cout<<"The Rent According to your choice for Life of pi – Yann Martel is 200\n";

}else if(o==4)

{

cout<<" The Rent According to your choice for The Lost World – Arthur Conan is 200\n";

}else if(o==5)

{

cout<<" The Rent According to your choice for White Fang – Jack London is 200\n";

}else if(o==6)

{

cout<<" The Rent According to your choice for The Three Muskiteers – Alexander Dumas is 200\n";

}else if(o==7)

{

cout<<" The Rent According to your choice for The Jungle Book – Rudyard Kilping is 200\n";

}else if(o==8 )

{

cout<<" The Rent According to your choice for Into the Wild – Jon Krakuer is 200\n";

}else if(o==9)

{

cout<<" The Rent According to your choice for Throne of Grass – Sarah J. Maas is 200\n";

}else if(o==10)

{

cout<<" The Rent According to your choice for Stardust – Neil Gaiman is 200\n";

}else

{

cout<<"\n";

}}

};

// Derived class

class MyChildClass: public MyClass, public MyOtherClass1, public MyOtherClass2, public MyOtherClass3, public MyOtherClass4, public MyOtherClass5, public MyOtherClass6, public MyOtherClass7, public MyOtherClass8, public MyOtherClass9, public MyOtherClass10, public MyOtherClass11, public MyOtherClass12, public MyOtherClass13, public MyOtherClass14

{

};

int main() {

MyChildClass myObj;

int E;

do{

cout<<"\n1. Package & Rate\n";

cout<<"2. Choose your book\n";

cout<<"3. Exit\n";

cout<<"Enter Your selection ";

cin>>E;

if(E==1)

{

string myText1;

ifstream MyReadFile1("rate.txt");

while (getline (MyReadFile1, myText1)) {

cout << myText1;

}

MyReadFile1.close(); //rate board

}else if(E==2)

{

int A;

cout<<"enter 1 for 1 day package\n";

cout<<"enter 2 for 5 days package\n";

cout<<"enter 3 for 10 days package\n";

cin>>A;

if(A==1)

{

int B;

string myText2;

ifstream MyReadFile2("category.txt");

while (getline (MyReadFile2, myText2)) {

cout << myText2;

}

MyReadFile2.close();

//category file handle

cout<<"\nEnter the category code :";

cin>>B;

if(B==1)

{

myObj.myFunction();

}else if(B==2)

{

myObj.myOtherFunction1();

}else if(B==3)

{

myObj.myOtherFunction2();

}else if(B==4)

{

myObj.myOtherFunction3();

}else if(B==5)

{

myObj.myOtherFunction4();

}else

{

cout<<"Thanks";

}

}else if(A==2)

{

int C;

string myText3;

ifstream MyReadFile3("category.txt");

while (getline (MyReadFile3, myText3)) {

cout << myText3;

}

MyReadFile3.close();//category file handle

cout<<"\nEnter the category code :";

cin>>C;

if(C==1)

{

myObj.myOtherFunction5();

}else if(C==2)

{

myObj.myOtherFunction6();

}else if(C==3)

{

myObj.myOtherFunction7();

}else if(C==4)

{

myObj.myOtherFunction8();

}else if(C==5)

{

myObj.myOtherFunction9();

}else

{

cout<<"Thanks";

}

}else if(A==3)

{

int D;

string myText4;

ifstream MyReadFile4("category.txt");

while (getline (MyReadFile4, myText4)) {

cout << myText4;

}

MyReadFile4.close(); //category file handle

cout<<"\nEnter the category code :";

cin>>D;

if(D==1)

{

myObj.myOtherFunction10();

}else if(D==2)

{

myObj.myOtherFunction11();

}else if(D==3)

{

myObj.myOtherFunction12();

}else if(D==4)

{

myObj.myOtherFunction13();

}else if(D==5)

{

myObj.myOtherFunction14();

}else

{

cout<<"Thanks";

}

}else

{

cout<<"\n";

}

}else if(E==3){

break;

}else{

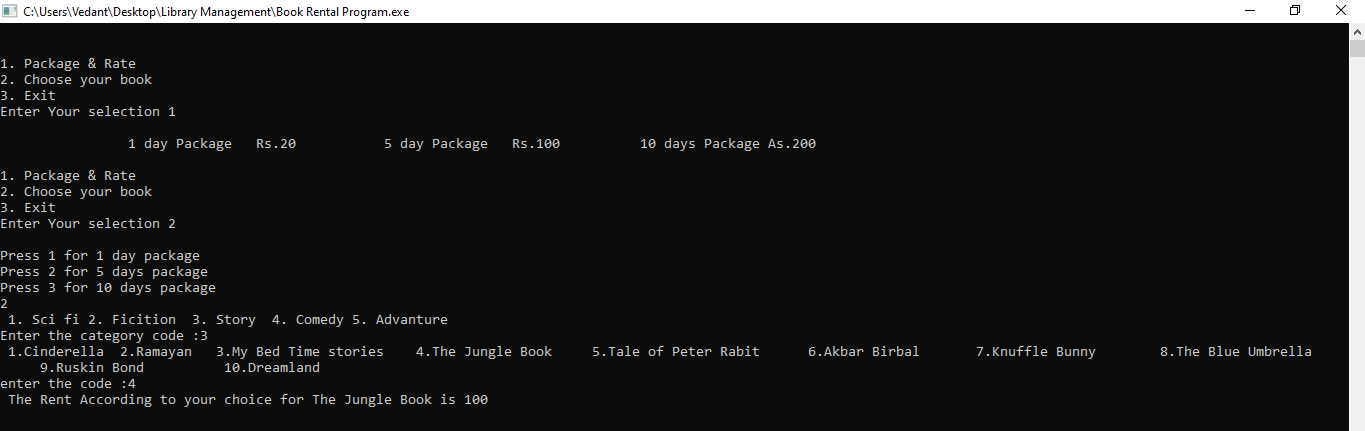
cout<<"\n";

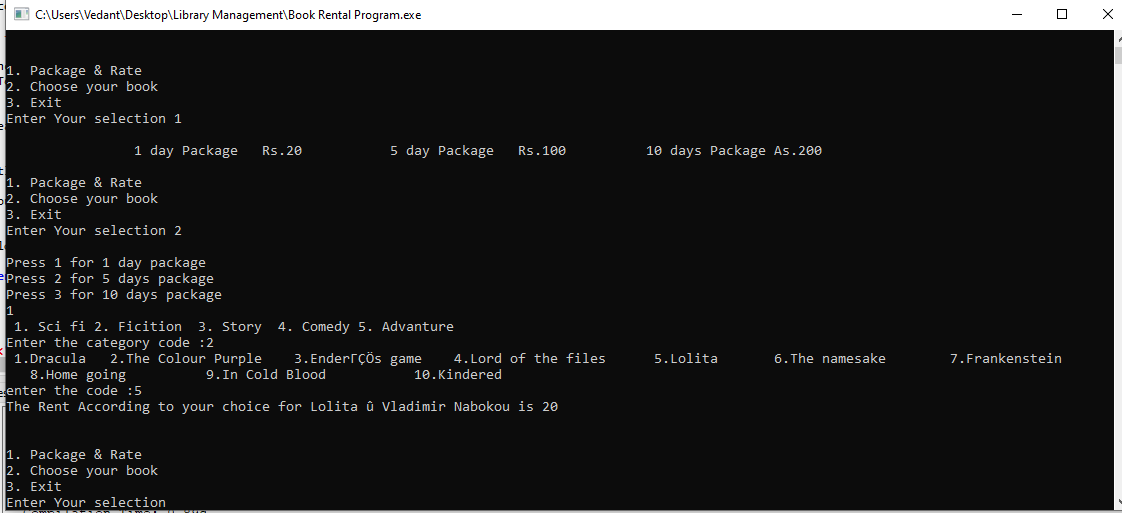
}}while(E=3);

return 0;

}

**Output**

****

****

**In this project we have used file handling concept, so following files containing information will be print on compiler while executing the program.**















**Conclusion.**

In above program, we saw concept of multiple inheritance, class object concept, constructor and also file handling implemented into the program.

Multiple Inheritance is used to differentiate between different category of books and also few other purposes, constructor is used in all the classes used in program. File handling is used to store the information of books.

**Github Link**

<https://github.com/Vedantzope-08/Book-Rental-Program/blob/main/Book%20Rental%20Program.rar>