**Practical No.:-** 3

**Name:** Sattyam Sagar Chavan, AI&DS-B4 batch, Roll no: 73

**Input :-**

#include <iostream>

using namespace std;

class publication

{

protected:

string title;

float price;

public:

publication()

{

title="";

price=0.0;

}

publication(string t,float p)

{

title=t;

price=p;

}

};

class book:public publication

{

private:

int pages;

public:

book():publication()

{

pages=0;

}

book(string t,int p,float pr):publication(t,pr)

{

if(p>0&&pr>0.0)

{

pages=p;

}

else{

throw(0);

}

}

void display()

{

cout<<title<<" | "<<price<<" | "<<pages<<endl;

}

};

class tape:public publication

{

private:

float mins;

public:

tape():publication()

{

mins=0.0;

}

tape(string t,float p,float pr):publication(t,pr)

{

mins=p;

if(p>0&&pr>0.0)

{

mins=p;

}

else{

throw(0);

}

}

void display()

{

cout<<title<<" | "<<price<<" | "<<mins<<endl;

}

};

int main()

{

cout<<"Name : Sattyam Sagar Chavan , Class : SE , Batch : B4 , Roll no. : 73 \nOUTPUT:\n";

int pages;

float price;

string title;

cout<<"Enter Book Details : "<<endl<<”Title | Pages | Price"<<endl;

cin>>title>>pages>>price;

float mins,pr;

string t;

cout<<"Enter Book Details : "<<endl<<”Title | Pages | Price"<<endl;

cin>>t>>mins>>pr;

book b;

tape t1;

try

{

b = book(title,pages,price);

t1 = tape(t,mins,pr);

}

catch(...)

{

b.display();

t1.display();

b=book("",0,0);

t1=tape("",0,0);

}

b.display();

t1.display();

return 0;

}

**Output :**

