**Task 01:** Create a class **fraction**. The data member should be **float** for storing **Numerator and Denominator** publicly. In a **main()** Function create fraction object named **f[10]** (fraction f[10];) & Input data for 10times.Show the fractional answers after the input.

**Sample output:**

**A screenshot of a computer

Description automatically generated with medium confidence**

**Task 02:**  Write a class that has **num and ch** as data members. A **constructor** with no parameter **initializes num to 0** and ch to **'x'**. A **constructor with two parameters** initializes data members with the given values and member function show displays the values of data members.

**Task 03:**  Write a class **Book** that has attributes for **pages, price, and title**. It has **two functions** to input the values and display the values. Create **three objects** of the class and input values.

**Task 04:**  Write a class **Travel** that has attributes of **Kilometer and hours**. A **constructor** with no parameter initializes both data members **to 0**.A member function **get()** inputs the values and function **show()** displays the values. It has a member function **add()** that takes an object of type

Travel to add the Kilometers and hours of calling object and the parameter.

**Task 05:** Create a **class Employee**. The data member should **comprise** and **int** for storing **employee number**, and a **float** for storing the **employee’s salary**. Member function should allow the **user to enter** this data and display it. Write a **main() function** that allows the user to enter data for **three employees** and display it.

**Task 06:** Create a class **Time** that has separate **int** member data for **hours, minutes, and seconds**. **One constructor** should initialize this data to **0**, and another should **initialize it to fixed values**. Another member function should display it in **11:59:59 format**. The **final member function** should add **two objects** of type **Time passes as arguments**.

**Task 07**: Consider a **class Movie** that contains information about a movie. The class has the following attributes:

• The **movie name**.

• The number of people that have rated this movie as a 1 **(Terrible)**

• The number of people that have rated this movie as a 2 **(Bad)**

• The number of people that have rated this movie as a 3 **(OK)**

• The number of people that have rated this movie as a 4 **(Good)**

• The number of people that have rated this movie as a 5 **(Great)**

Write a function **addRating** that takes an integer as an **input parameter**. The function should verify that the parameter is a number **between 1 and 5**, and if so, increment the number of people rating the movie that match the input parameter. **For example,** if 3 is the input parameter, then the number of people that rated the movie as a 3 should be incremented by 1.

Write another function, **getAverage,** that **returns** the average value for all the **movie ratings**. **Finally,** add a **constructor** that allows the programmer to create the object with a **specified movie name**.

**Task 08**:Define a class called **CounterType.** An **object** of this **type** is used to count things, so it records a count that is a **nonnegative whole number**. Include a **default constructor** that sets the counter **to zero** and a **constructor with one argument** that sets the counter to the value specified by its argument. Include **member functions** to increase the count by 1 and to decrease the count by 1. Be sure that no member function allows the value of the counter to become negative. Also, include a member function that returns the current count value and one that outputs the count to a stream.

**Task 09:**

**Text

Description automatically generated**

**Task 10:** Remove Errors and Align (redundant) the following programs.

**a.**

#include<ioustreamh>

#include<conio.h>

double power(double n,int p=2);

int main()

{

double n,r; int p; char c;

clrscr();

cout<<"enter the number:";

cin>>n;

do

cout<<"do you want to enter power(y/n)?:

cin>>c;

if(c=='y')

{

cout<<"enter the power to be raised:";

cin>>p;

r=power(n,p);

}

else

{

if(c=='n)

{

p=2;

r=power(n);

}

else

cout<<"invalid choice\n";

}

}while(c!='y'&&c!='n');

cout<<n<<"^"<<p<<"("<<n<<" raised to the power <<p<<")="<<r

getch();

return 0;

}

**double power(double n,int p)**

**{**

**double r=1;**

**int i;**

**if(p<0)**

**r=1/power(n,-p);**

**else**

**fr(i=1;i<=p;i+**

**r=r multipy n;**

**return(r;**

**}**

**b.**

**#include<iostream.h>**

**#include<conio.h>**

**#define N=2**

**struct point**

**{**

**int x,**

**int y;**

**}**

**p[N],pt={0,0};**

**int main()**

**{**

**int i;**

**clrscr();**

**for(i=0;i<=N-1;i++)**

**{**

**cout<<"enter coordinates x"<<i+1<<" & y"<<i+1<<":";**

**cin>>p[i].x>>p[i].y;**

**}**

**for(i=0;i<=N-1;i++)**

**{**

**pt.x=pt.x+p[i.x;**

**pt.y=pt.y plus p[i].y;**

**}**

**cout<<"sum of "<<N<<" points is:"<<pt.x<<","<<pt.y**

**getch();**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***