# OOP LAB ASSIGNMENT- 2

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## 2105714 , CSE-01

## Q1.WAP to display the message “hello” followed by you’re name on the screen.

-->

#include <iostream>

using namespace std;

class name{

public:

string nam;

void input(string n){

nam=n;

}

void output(){

cout<<"Hello "<<nam;

}

};

int main()

{

name n;

n.input("Farhan");

n.output();

return 0;

}

OUTPUT:

Hello Farhan

## Q2.create a class which stores name, roll number & total marks for a student.

## Input the data for a student & display it .

-->

#include <iostream>

using namespace std;

int main()

{

class student{

public:

string name;

int roll;

int total;

student(string n,int r,int t){

name=n;

roll=r;total=t;

}

};

string name;

int roll;int total;

cin >>name >> roll >>total;

student stu1(name,roll,total);

cout<< stu1.name <<" "<< stu1.roll <<" "<< stu1.total;

return 0;

}

# Q3.modify the program in Q2. to store marks of 5 subject .calculate the total marks & percentage of a student & display it.

-->

#include <iostream>

using namespace std;

int main()

{

struct subjects{

int maths;int sst;

int sci;int eng;

int hin;

};

class student{

public:

string name;

int roll;

struct subjects sub;

student(string n,int r,struct subjects s){

name=n;

roll=r;

sub = s;

}

int total(){

return sub.eng+sub.hin+sub.maths+sub.sci+sub.sst;

}

int percentage(){

return (sub.eng+sub.hin+sub.maths+sub.sci+sub.sst)/5;

}

};

string name;

int roll;int total;

cout<< "Enter Name and Roll ";cin >>name >> roll;

struct subjects sub;

cout<< "Enter marks in Maths ";cin>> sub.maths;

cout<< "Enter marks in SST ";cin>> sub.sst;

cout<< "Enter marks in SCI ";cin>> sub.sci;

cout<< "Enter marks in ENG ";cin>> sub.eng;

cout<< "Enter marks in HIN ";cin>> sub.hin;

student stu1(name,roll,sub);

cout<< stu1.name <<" Roll: "<< stu1.roll <<" Total: "<< stu1.total()<<" Percentage: "<< stu1.percentage();

return 0;

}

OUTPUT-->

Enter Name and Roll farhan

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Enter marks in Maths 98

Enter marks in SST 99

Enter marks in SCI 89

Enter marks in ENG 78

Enter marks in HIN 90

farhan Roll: 2105714 Total: 454 Percentage: 90

## Q4.create a class complex which stores real and imaginery part of a complex number. Input 10 comlex numbers & display them.

-->

#include <iostream>

using namespace std;

int main()

{

class complex{

public:

int real;

int imag;

void input(int r,int im){

real=r;

imag=im;

}

void output(){

cout<<"\n"<<real << " + "<<imag<<"i";

}

};

int size=10;

complex com[size];

for(int i=0;i<size;i++){

int real;

int imag;

cout<<"Enter Real "<<i+1<<"=";cin>>real;

cout<<"Enter Complex "<<i+1<<"=";cin>>imag;

com[i].input(real,imag);

}

for(int i=0;i<size;i++){

com[i].output();

}

return 0;

}

**OUTPUT:**

Enter Real 1=2

Enter Complex 1=3

Enter Real 2=4

Enter Complex 2=

5

Enter Real 3=6

Enter Complex 3=7

Enter Real 4=8

Enter Complex 4=9

Enter Real 5=0

Enter Complex 5=5

Enter Real 6=

3

Enter Complex 6=26

Enter Real 7=

534

Enter Complex 7=

45

Enter Real 8=

6

Enter Complex 8=36

Enter Real 9=3

Enter Complex 9=5

Enter Real 10=2

Enter Complex 10=5

2 + 3i

4 + 5i

6 + 7i

8 + 9i

0 + 5i

3 + 26i

534 + 45i

6 + 36i

3 + 5i

2 + 5i

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