

OOP LAB ASSIGNMENT-02

27/07/22

Q1. WAP to display the message "Hello" followed by your name as on screen.

→ #include <iostream>

using namespace std;

class name {
public:

string name;

void input (string n) {
name = n;

}

void output () {

cout << "Hello" << name; }

}

};
int main ()

{
name n;

n.input ("farhan");
n.output();

return 0;

OUTPUT :-

Hello farhan ;

FARHAN

JAFFER

2105714, 6/1

CSE-01

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 ~~4~~ 5 subj. Calculate the total marks & percentage of a student & display it.

```
#include <iostream>
```

using name space std;

int main()

Street subjects {

ein mathe; ein st;

int sci ; int eng ;

mit heißen;

$y_{IT22} \approx 0.05 \times 10^{-3}$

class student

132 public;

posting name: 11/13 no extension. 8/31/13 12:11pm

ent roll

strict subject's sub, no return signs in >> using

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

name = n

9000-9

```
int total() {
```

return sub. eng + sub. hist + sub. maths +
sub. sci + sub. syst;

next page

ent percentage() {

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

}

}

string name;

int roll; int total;

cout << "Enter Name & 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 stu(name, roll, sub);

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

return 0;

f.

OUTPUT :-

Enter Mark

Enter name and roll : farhan

2105714

Enter Marks in Maths : 98

Enter Marks in SST : 89

Enter Marks in SCI : 99

Enter Marks in ENG : 87

Enter Marks in HIN : 88

farhan Roll: 2105714 Total: 461 Percentage: 92

Q4: Create a class complex which stores real and imaginary part of a complex number. Input 10 complex numbers and 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 void output() {
```

```
    cout << " <\n" << real << " + " << imag << " - ";
```

```
}
```

```
int size = 10; // width in screen printing
```

```
complex com [size];
```

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

```
    int real;
```

```
    int imag;
```

```
    cout << "Enter Real" << i << "="; cin >> real;
```

```
    cout << "Enter complex part" << i << "=";
```

```
    cin >> imag;
```

```
    com[i] = input(real, imag);
```

```
    // question is to find minimum and max
```

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

```
        com[i].output();
```

```
}
```

```
return 0;
```

```
}
```

Output :-

```
Enter Real 1 = 2
```

```
Enter complex part 1 = 4
```

```
Enter Real 2 = 3
```

```
Enter complex part 2 = 4
```

{ unsigned 2012}

next page

Enter Real 3 = 2

Enter complx part 3 = 3

Enter Real 4 = 4

Enter complx part 4 = 5

Enter Real 5 = 11

Enter complx part 5 = 33

Enter Real 6 = 44

Enter complx part 6 = 56

Enter Real 7 = 43

Enter complx part 7 = 54

Enter Real 8 = 33

Enter complx part 8 = 2

Enter Real 9 = 22

Enter complx part 9 = 98

Enter Real 10 = 43

Enter complx part 10 = 45

$$2+4i$$

$$3+4i$$

$$2+3i$$

$$4+5i$$

$$11+33i$$

$$44+56i$$

$$43+54i$$

$$33+2i$$

$$22+98i$$

$$43+45i$$

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