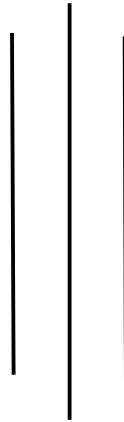


Object Oriented Programming Laboratory

Assignment – 3



Submitted By:

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CSE-34

Date: 25th August, 2022

Question 1:

```
1 // write a object oriented program to read the rollno, name and marks of students and display the detail.
2
3 #include<iostream>
4 using namespace std;
5
6 class student{
7     int rollno;
8     char name[20];
9     float marks;
10 public:
11     void get_data();
12     void display();
13 };
14
15 void student::get_data(){
16     cout<<"Enter rollno : ";
17     cin>>rollno;
18     cout<<"Enter name : ";
19     cin>>name;
20     cout<<"Enter marks : ";
21     cin>>marks;
22 };
23
24 void student::display(){
25     cout<<"Rollno: "<<rollno<<endl;
26     cout<<"Name: "<<name<<endl;
27     cout<<"Marks: "<<marks<<endl;
28 }
29
30 int main(){
31     student s;
32     s.get_data();
33     s.display();
34     return 0;
35 }
```

Output:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
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```
PS C:\Users\KIIT01\Desktop\programming> cd "c:\Users\KIIT01\Desktop\programming\OOP\25 august\" ; if ($?) { g++ q1.cpp -o q1 } ; if ($?) { .\q1 }
Enter rollno : 21052960
Enter name : yishap
Enter marks : 95
Rollno: 21052960
Name: yishap
Marks: 95
PS C:\Users\KIIT01\Desktop\programming\OOP\25 august> |
```

Question 2:

```
1 // write a object oriented program to read the rollno, name and 3 marks of students and display the sum of marks.
2
3 #include<iostream>
4
5 using namespace std;
6
7 class student
8 {
9     int rollno;
10    char name[20];
11    float marks[3];
12 public:
13     void get_data();
14     void display();
15 };
16
17 void student::get_data(){
18     cout<<"Enter rollno: ";
19     cin>>rollno;
20     cout<<"Enter name: ";
21     cin>>name;
22     cout<<"Enter marks: ";
23     for(int i=0;i<3;i++)
24     |     cin>>marks[i];
25 }
26
27 void student::display(){
28     cout<<"Rollno: "<<rollno<<endl;
29     cout<<"Name: "<<name<<endl;
30     cout<<"Marks: "<<marks[0] + marks[1] + marks[2]<<endl;
31 }
32
33 int main(){
34     student s;
35     s.get_data();
36     s.display();
37     return 0;
38 }
```

Output:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell

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```
PS C:\Users\KIIT01\Desktop\programming> cd "c:\Users\KIIT01\Desktop\programming\OOP\25 august\" ; if ($?) { g++ q2.cpp -o q2 } ; if ($?) { .\q2 }
Enter rollno: 21052960
Enter name: Yishap
Enter marks: 91 82 86
Rollno: 21052960
Name: Yishap
Total Marks: 259
PS C:\Users\KIIT01\Desktop\programming\OOP\25 august> |
```

Question 3:

```
1 // WAQOOP to read like roll, name and 3 mark of a student, calculate the grade & display it.
2
3 #include<iostream>
4 using namespace std;
5 class student
6 {
7     int rollno;
8     char name[20];
9     float marks[3];
10 public:
11     void get_data();
12     void display();
13     float total;
14     float percent;
15     void grade();
16 };
17
18 void student::get_data(){
19     cout<<"Enter rollno: ";
20     cin>>rollno;
21     cout<<"Enter name: ";
22     cin>>name;
23     cout<<"Enter marks: ";
24     for(int i=0;i<3;i++)
25         cin>>marks[i];
26 }
27
28 void student::display(){
29     cout<<"Rollno: "<<rollno<<endl;
30     cout<<"Name: "<<name<<endl;
31     total = marks[0] + marks[1] + marks[2];
32     cout<<"Total Marks: "<<total<<endl;
33     cout<<"Grade: ";
34     grade();
35 }
```

```
37 void student::grade(){
38     percent=(total/300)*100;
39     if(percent>=90)
40         cout<<"Grade: O"<<endl;
41     else if(percent>=80)
42         cout<<"Grade: E"<<endl;
43     else if(percent>=70)
44         cout<<"Grade: A"<<endl;
45     else if(percent>=60)
46         cout<<"Grade: B"<<endl;
47     else if(percent>=50)
48         cout<<"Grade: C"<<endl;
49     else if(percent>=40)
50         cout<<"Grade: C"<<endl;
51     else
52         cout<<"Grade: F"<<endl;
53 }
54
55 int main(){
56     student s;
57     s.get_data();
58     s.display();
59     return 0;
60 }
```

Output:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\KIIT01\Desktop\programming> cd "c:\Users\KIIT01\Desktop\programming\OOP\25 august\" ; if ($?) { g++ q3.cpp -o q3 } ; if ($?) { .\q3 }
Enter rollno: 21052960
Enter name: yishap
Enter marks: 91 88 83

Rollno: 21052960
Name: yishap
Total Marks: 262
Grade: Grade: E
PS C:\Users\KIIT01\Desktop\programming\OOP\25 august> █
```