Sri Krishna College of Technology

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Batch :2022-26   Degree :B.E - Cyber Secirity

2022_26_I_Problem Solving using CPP_IRC

IRC_CPP_Conditional Statements

Attempt : 1
Total Mark : 140
Marks Obtained : 28

Section 1 : CODING

1.   Problem Statement :

Profit or loss

A fruit seller buys a dozen of bananas at Rs.X. He sells 1 banana at Rs.Y. Write a program to determine the profit or loss in Rs. for the fruit seller.

Answer

```cpp
// You are using GCC
#include<iostream>
using namespace std;

int main()
{
   float x,y;
   cin>>x>>y;

   if(x<y*12)
   {
      cout<<"Profit : Rs."<<y*12-x;
   }
```

```
    else
    {
        cout<<"loss : Rs."<<x-y*12;
    }
    return 0;
}
```

Status : Correct   *Marks : 20/20*

2. Problem Statement :

Hotel Tariff Calculator

Write a program to calculate the hotel tariff. The room rent is 20% high during peak seasons [April, May, June, November, December]. Note: Use the switch construct.

Valid Months : 1 to 12

Answer

```
// You are using GCC
#include<iostream>
using namespace std;

int main()
{
    int nm,days,tamt,per;
    float rent;
    cin>>nm>>rent>>days;
    tamt=days*rent;
    per=(20/100)*tamt;

    switch(nm)
    {
        case 1:
        cout<<tamt;
        break;

        case 2:
        cout<<tamt;
```

```cpp
        break;

        case 3:
        cout<<tamt;
        break;

        case 4:
        cout<<tamt+per;
        break;

        case 5:
        cout<<tamt+per;
        break;

        case 6:
        cout<<tamt+per;
        break;

        case 7:
        cout<<tamt;
        break;

        case 8:
        cout<<tamt;
        break;

        case 9:
        cout<<tamt;
        break;

        case 10:
        cout<<tamt;
        break;

        case 11:
        cout<<tamt+per;
        break;

        case 12:
        cout<<tamt+per;
        break;
```

```
        default :
        cout<<"Invalid Input";
        break;
    }
}
```

Status : Partially correct   *Marks : 8/20*

3.   Problem Statement :

Anna University Grading System

The newly appointed Vice-Chancellor of Anna University wanted to create an automated grading system for the students to check their grades. When a student enters a mark, the grading system displays the corresponding grade. Write a program to solve the given problem. The grades for marks 100 - S, 90-99 are A, 80-89 is B, 70-79 in C, 60-69 is D, 50-59 is E and less than 50 is F.

Answer

-

Status :   -   *Marks : 0/40*

4.   Problem Statement:

Kalyani Jewellers has planned to build a new showroom in Coimbatore city. They have selected the area to build the showroom and it is in a triangle shape. Ravi, a civil engineer from VIP construction is the in-charge of this project. Ragavan, founder of VIP construction asked Ravi to find the exact shape of the selected area. Help Ravi to find the exact triangle shape.

Equilateral Triangle - If all sides are equal

Isosceles Triangle - If any two sides are equal

Scalene Triangle - No sides are equal

Answer

-

Status : -   *Marks : 0/60*