

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 5_COD_Medium_Class Objects

Attempt : 1

Total Mark : 10

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Ramanan is a weather enthusiast who wants a simple tool to convert temperatures between Fahrenheit and Celsius. He has requested your help to create a program that accomplishes this task.

Write a program that allows Ramanan to input temperatures in Fahrenheit and Celsius, convert them to the other scale and display the equivalent temperature of both temperatures. Use a class Temperature having the temperature as a public attribute.

Formulas:

Fahrenheit to Celsius = $(F - 32) * 5/9$

Celsius to Fahrenheit = $(C * 9/5) + 32$

Answer

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

class Temperature{
public:
    float temperature1;
    float temperature2;

    void f2c(float temperature1){
        float f2c_new = (temperature1 - 32) * 5/9;
        cout<<fixed<<setprecision(2)<<f2c_new<<" degree celsius"<<endl;
    }

    void c2f(float temperature2){
        float c2f_new = (temperature2 * 9/5) + 32;
        cout<<fixed<<setprecision(2)<<c2f_new<<" degree fahrenheit"<<endl;
    }
};

int main(){
    Temperature temp;
    cin>>temp.temperature1;
    cin>>temp.temperature2;

    temp.f2c(temp.temperature1);
    temp.c2f(temp.temperature2);

    return 0;
}
```

Status : Correct

Marks : 10/10