

VIT - Vellore

Name: DIVYANSHU SINGH .
Email: divyanshu.singh2024a@vitstudent.ac.in
Roll no: 24BCT0101
Phone: 9999999999
Branch: PRIYADHARSINI M_OOPS
Department: admin
Batch: VL2024250502354
Degree: admin

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502354

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

```
#include<iostream>
using namespace std;
#include<iomanip>
class Temperature{
public:
void Celsius(float n){
float ans=((n-32)*5)/9;
cout<<fixed<<setprecision(2)<<ans<<" "<<"degree celsius"<<endl;
}
void far(float m){
float ans1=(m*9/5)+32;
cout<<fixed<<setprecision(2)<<ans1<<" "<<"degree fahrenheit";
}
};
int main(){
Temperature k;
float n,m;
cin>>n>>m;
k.Celsius(n);
k.far(m);
return 0;
}
```

Status : Correct

Marks : 10/10