

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502354

VIT V_Structured and OOP_Lab 5_COD_Easy_Functions with default Arguments

Attempt : 1

Total Mark : 20

Marks Obtained : 20

Section 1 : Coding

1. Problem Statement

Regina is working on a greeting program to welcome and say hello to users. She wants to create a flexible program that allows users to input their name and receive a personalized welcome and greeting. Regina also wants to provide default greetings in case the user doesn't input their name.

Implement a program that takes a user's name as input and displays both a welcome message and a hello message using functions with default arguments.

Functions Specifications

```
void displayWelcome(const string& name = "")
```

If name is provided, it includes the name in the message.

```
void displayHello(const string& name = "")
```

If name is provided, it includes the name in the message.

Answer

```
#include<iostream>
using namespace std;
class greet{
public:
    void displayWelcome(string name,string h="Welcome"){
        cout<<h<<" "<<name<<endl;
    }
    void displayHello(string name,string f="Hello"){
        cout<<f<<" "<<name;
    }
};
int main(){
    string n;
    cin>>n;
    greet k;
    k.displayWelcome(n);
    k.displayHello(n);
    return 0;
}
```

Status : Correct

Marks : 10/10

2. Problem Statement

Raj is working on a project where he needs to find the largest element in an array of integers. However, he wants to create a flexible function that allows him to find the largest element in an array of any size, with a default size of 5.

Help him write a function to accomplish this.

Function Signature

int findLargest(int arr[], int size = 5)

Answer

```
#include<iostream>
using namespace std;
class m{
public:
    int l=0;
    void findLargest(int arr[],int size=5){
        for(int i=0;i<size;i++){
            if(arr[i]>l){
                l=arr[i];
            }
        }
        cout<<l;
    }
};
int main(){
    m k;
    int arr[4];
    for(int i=0;i<5;i++){
        cin>>arr[i];
    }
    k.findLargest(arr);
    return 0;
}
```

Status : Correct

Marks : 10/10