

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

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

```
// You are using GCC
```

```
#include<iostream>
```

```
#include<string>
```

```
using namespace std;
```

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

```
    cout<<"Welcome "<<name<< endl;
```

```
}
```

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

```
    cout<<"Hello "<<name;
```

```
}
```

```
int main(){
```

```
    string name;
```

```
    cin >> name;
```

```
    displayWelcome(name);
```

```
    displayHello(name);
```

```
    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

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

```
int findLargest(int arr[],int size = 5){
    int max = arr[0];
    for(int i = 1; i < size; i++){
        if(arr[i] > max){
            max = arr[i];
        }
    }
    return max;
}

int main(){
    int arr[5];
    for(int i = 0; i < 5; i++){
        cin >> arr[i];
    }
    cout << findLargest(arr);
    return 0;
}
```

Status : Correct

Marks : 10/10