

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502354

VIT V_Structured and OOP_Lab 5_COD_Easy_Constructors Destructors

Attempt : 1
Total Mark : 20
Marks Obtained : 20

Section 1 : Coding

1. Problem Statement

Alex is creating a simulation to track the creation and destruction of objects in a program. Each object is represented by an instance of the man class. Every time a new object is created, a message is printed indicating its creation number. Similarly, when an object is destroyed, a message is printed indicating its destruction order.

Write a program to simulate the creation of n objects and track the order in which they are created and destroyed.

Answer

```
#include<iostream>
```

```

using namespace std;
class create{
public:
    int n;
    create(){
        cin>>n;
        for(int i=1;i<=n;i++){
            cout<<"Created"<<" "<<i<<endl;
        }
        for(int i=n-1;i>=0;i--){
            cout<<"Destroyed"<<" "<<i<<endl;
        }
    }
};
int main(){
    create();
    return 0;
}

```

Status : Correct

Marks : 10/10

2. Problem Statement

Create a program that calculates and prints the areas of two walls. Define a class called Wall with private attributes for length and height. Initialize these variables using a constructor. In the main function, read the dimensions for two walls. Use a member function called calculateArea in the class to calculate the area. Read inputs for two walls and print the result.

Formula:

Area = length * height

Answer

```

#include<iostream>
using namespace std;
class area1{
public:
    void area2(){

```

```
float n,m;  
area1 w;  
for(int i=0;i<2;i++){  
    cin>>n>>m;  
  
    cout<<"Area of Wall"<<" "<<i+1<<":"<<" "<<n*m<<"\n";  
}  
};  
int main(){  
    area1 u;  
    u.area2();  
    return 0;  
}
```

Status : Correct

Marks : 10/10