VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 5_COD_Medium_Constructors Destructors

Attempt : 1 Total Mark : 10 Marks Obtained : 10

Section 1: Coding

1. Problem Statement

Rathi wants to determine whether a given string is a palindrome or not. To assist her, you are tasked with creating a program that checks if a string is a palindrome.

You are required to define a PalindromeChecker class with the following properties and methods:

A constructor that initializes the object with a string. A method named is Palindrome that checks if the input string is a palindrome. A destructor that displays a message when an object is destroyed.

Answer

```
24BA10036
   // You are using GCC
    #include<iostream>
#include<algorithm>
   using namespace std;
   class PallindromeChecker{
      private:
        string str;
      public:
        PallindromeChecker(string a){
          str = a;
        bool isPallindrome(){
        string temp = str;
          reverse(temp.begin(),temp.end());
          return temp == str;
        ~PallindromeChecker(){
          cout<<"Destructor called. Object destroyed.";
   };
    int main()
      string input;
      cin>>input;
      PallindromeChecker check(input);
      if(check.isPallindrome()){
        cout<<"The input string is a palindrome."<<endl;
      }
      else{
        cout<<"The input string is not a palindrome."<<endl;
      }
      return 0;
```

Status: Correct

Marks: 10/10