



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

Department of Humanities and Applied Science

Academic Year: 2023-24

Name of Student: Vedant Nagesh Terse

Semester: II

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Class / Branch: F.E ALL

Date of Performance: 27/03/2024

Subject: C Programming

Date of Submission: 27/03/2024

Name of Instructor: Prof. [Vandana Virbhadre](#)

Experiment No.18

Aim: Implementation of character array.

Problem statement: Write a program to check whether a given string is a palindrome or not.

PROGRAM:-

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
int main()
{
    char str[20];
    int start=0;
    printf("Enter a string:-");
    scanf("%s",str);
    int end=strlen(str)-1;
    while(end>start)
    {
        if(str[start]!=str[end])
        {
            printf("Not a palindrome string\n");
            exit(0);
        }
        start++;
        end--;
    }
    printf("Palindrome String\n");
    return 0;
}
```

OUTPUT:-

```
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/EXp18$ gcc EXp18.c
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/EXp18$ ./a.out
Enter a string:-radar
Palindrome String
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/EXp18$ ./a.out
Enter a string:-hello
Not a palindrome string
```