



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

Student ID: 23104195

Class / Branch: F.E ALL

Date of Performance: 07/02/2024

Subject: C Programming

Date of Submission: 07/02/2024

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

Experiment No.7

Aim: Write a program that demonstrate working of for loop

Problem statement: Write a program to calculate the product of first n natural number using for loop.

PROGRAM:-

```
#include<stdio.h>
int main ()
{
    int n , sum=0 , prod=1,i;
    printf("Enter your number");
    scanf ("%d",&n);
    for(i=1;i<=n;i++)
    {
        prod=prod*i;
        sum=sum+i;
    }
    printf("sum of natural no=%d\n",sum);
    printf("product of natural no=%d\n",prod);

    return 0;
}
```

OUTPUT:-

```
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/Exp7$ gcc Exp7.c
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/Exp7$ ./a.out
Enter your number5
sum of natural no=15
product of natural no=120
```