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.8

Aim: Write a program to demonstrate working of while loop.

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

PROGRAM:-

```c
#include<stdio.h>
int main ()
{
int n , rem , sum=0 ,prod=1;
printf("Enter any number ");
scanf("%d", &n);
while (n>0)
{
    rem=n%10;
    sum=sum+rem;
    prod=prod*rem;
    n=n/10;
}
printf("sum of numbers= %d\n",sum);
printf("product of numbers is= %d ",prod);
return 0;
}
```

OUTPUT:-

```
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/EXp8$ gcc EXp8.c
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/EXp8$ ./a.out
Enter any number 12
sum of numbers= 3
product of numbers is= 2 apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Deskto
```