Theory Assignment For CET 1

Name - Aman Kumar Shaw

Course Name - BCA

Date of Assignment Given - 07.11.2022

Date Code Executed - 08.11.2022

Date of Assignment Submitted - 09.11.2022

Program Name - Q1. Write a program to find the reverse of a number. e.g. Input: 124, Output: 421

Code:-

```c
#include <stdio.h>

int main()
{
    int num, rem, rev = 0;

    printf("Enter a number: ");
    scanf("%d", &num);

    while (num != 0)
    {
        rem = num % 10;
        rev = rev * 10 + rem;
        num = num / 10;
    }

    printf("Reverse = %d", rev);

    return 0;
}
```

output:-

```
Enter a number: 124
Reverse = 421
```

Program Name - Q2. Write a program to find the sum of n natural numbers.

Code:-

```c
#include <stdio.h>

int main()
{
    int num, sum = 0;

    printf("Enter a number: ");
    scanf("%d", &num);

    for (int i = 1; i <= num; i++)
    {
        sum += i;
    }

    printf("Sum of first %d number is %d", num, sum);

    return 0;
}
```

output:-

```
Enter a number: 10
Sum of first 10 number is 55
```