

Assignment :-

26/11/25

- i) Write a program to print sum of digits using function.

Ans:

```
#include <stdio.h>
int sum_of_digits(int n);
int main() {
    int number, sum;
    printf("Enter any number to find the sum of
    its digits: ");
    scanf("%d", &number);
    sum = sum_of_digits(number);
    printf("Sum of digits of %d = %d\n", number, sum);
    return 0;
}

int sum_of_digits(int n) {
    int sum = 0;
    int remainder;
    while (n != 0) {
        remainder = n % 10;
        sum += remainder;
        n /= 10;
    }
    return sum;
}
```

Output :-

Enter any number to find sum of its digits : 234

Sum of digits of 234 = 9.

2. Write a C program to reverse given number using function.

2. Write

```
#include <stdio.h>
int reverse_number (int num);
int main()
{
    int number, reversed = 0;
    printf("Enter a number to reverse:");
    scanf("%d", &number);
    reversed = reverse_number (number);
    printf("reversed number: %d\n", reversed);
    return 0;
}
```

y
int reverse_number (int num) {

int reverse = 0, remainder;

while (num != 0) {

reverse = reverse * 10 + remainder;

num /= 10;

y
return reverse;

y

out put : Enter a number to reverse: 262

reversed number: 262.

3. Write a C program swap two number without using third variable.

```
#include <stdio.h>

int main() {
    int a, b;
    printf("enter two numbers (a and b): ");
    scanf("%d %d", &a, &b);
    printf("Before swap : a = %d , b = %d\n", a, b);

    a = a+b;
    b = a-b;
    a = a-b;

    printf("After swap : a = %d , b = %d\n", a, b);

    return 0;
}
```

Output :-

Enter two numbers (a and b) : 10 20

Before swap : a = 10, b = 20

After swap : a = 20, b = 10