26/11/2025

1) write a program the sum of digits using functions in with arguments without return type.

```
#include <stdio.h>

void sum of digits (int num)
{
    int sum = 0, digit;
    while (num > 0)
    {
        digit = num % 10;
        sum += digit;
        num = num / 10;
    }
    printf ("sum of digits = %d \n", sum);
}
int main()
{   int number;
    printf ("enter a number:");
    scanf ("%d", &number);
    sum of digits (number);
    return 0;
}
```

2) write a program to reverse a given number using function with arguments with return type.

```
#include <stdio.h>

int reverse number (int num)
{
    int rev = 0, rem ;
    while (num != 0)
    {
        rem = num % 10 ;
        loop
        rev = rev * 10 + rem ;
        num = num / 10 ;
    }
    return rev ;
}
    int main()
    {
        int n, result ;
        printf (" enter a number : ");
        scanf ("%d", &n) ;
        result = reverse number (n) ;
        printf (" Reversed number = %d ", result);
    return 0;
}
```

output :

Enter a number : 1234

Reversed number = 4321

3) write a program to swap two numbers without using third variable in without argument with return type.

```
#include <stdio.h>

int swap()
{
    int a,b;
    printf ("enter two numbers : ");
    scanf ("%d%d", &a, &b);
  // swapping without third variable
    a = a+b;
    b = a-b;
    a = a-b;
    printf ("After swapping :\n");
    printf ("a = %d\n", a);
    printf ("b = %d\n", b);
    return 0;          // return type is int
}
  int main()
{
    swap()          // function call
    return 0;
}
```

out put :

Enter two numbers : 10 20

After swapping :

a=20

b=10