26-11-2025     Assignment 5

1) Write a C program to print sum of digits. Using functions.

Ans:   #include <stdio.h>

```c
int sum of digits (int n);
int main () {
    int number, Sum;
    printf ("enter any number to find sum of its
                                    digits : ");

    scanf ("%d", & number);
    Sum = Sum of digits (number);
    printf (" Sum of digits of %d = %d /n", num, 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;
}.
```

Enter any numbers to find sum of its digits: 234.

Sum of digits of 234 = 9.

2) Write a c programm to reverse given number using function.

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

int reverse number (int num) {
    int reverse = 0, remainder;
    while (num != 0) {
        remainder = num %. 10;
        reverse = reverse * 10 + remainder;
        num /= 10;
    }
    return reverse;
}
```

Output:- Enter a number to reverse :- 262
Reversed number : 262.

3) Write a C programm swap two numbers without using third variable.

Ans:
```c
#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;
    c= 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.