01. write a   c programm to print sum of digits. using functions.

Ans:-

```c
#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", 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;
    }

    returm sum;

}
```

Enter any number 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 number (int num);
int main () {
    int number, reversed = 0;
    printf ("enter a number to reverse ;");
    scanf ("%d", & number);
    reversed = reversed number (number);
    printf (" reversed number : %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 ;
}
```

out Put :- 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;
    a = a - b;

    printf("after swap: a=%d,b=%d\n", a,b);
    return 0;
}
```

out Put:-

Enter two numbers (a and b) :- 10   20

Before swap : a = 10, b = 20

After swap : a = 20, b = 10