① write a C program to print sum of digits.

```c
#include <stdio.h>
int sumofdigits(int n)
{
    int sum=0;
    while (n!=0)
    {
        sum = sum+n%10
        n! = 10;
    }
    return sum;
}
int main() {
    int number;
    printf("Enter a number: ");
    scanf("%d", &number);
    int result = sumofdigits(number);
    printf("sum of digits = %d\n", result);
    return 0;
}
```

OutPut:-

    Enter a number: 456
    Sum of digits = 9.

② write a C program to print reverse number

```c
#include <stdio.h>
int reversenumber(int num)
{   int rev=0;
    while (num!=0)
```

```c
    {
        rev = rev * 10 + (num % 10);
        num /= 10;
    }
    return rev;
}
int main ()
{
    int n;
    printf ("Enter a number: ");
    scanf ("%d", &n);
    printf ("Reversed number :%d \n", reverse
                    number (n));

    return 0;
}
```

output :—

Enter a number : 024

Reverse num : 420.

③ write a C program to swap two numbers without using third variable.

```c
#include <stdio.h>
void swap ( int *a, int *b)
{
    *a = *a + *b
    *b = *a - *b;
    *a = *a - *b;
}
```

```c
int main ( )
{
    int x,y;
    printf ("Enter two numbers: ");
    scanf ("%d %d", &x, &y);
    printf ("\n Before swapping: x=%d, y=%d
            \n", x, y);

    swap (&x, &y);

    printf ("After swapping : x=%d, y=%d\n",
            x, y);

    return 0;
}
```

Out Put:-

Enter two numbers:

10
20
Before swapping : 10
                  20

After swapping: 20
                10