

ASSIGNMENT-6

[26-11-2025]

1)Program to find sum of digits in a number?

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int num, sum = 0, rem;
```

```
    printf("Enter a number: ");
```

```
    scanf("%d", &num);
```

```
    while(num != 0)
```

```
    {
```

```
        rem = num % 10;    // get last digit
```

```
        sum = sum + rem;    // add to sum
```

```
        num = num / 10;    // remove last digit
```

```
    }
```

```
    printf("Sum of digits = %d", sum);
```

```
    return 0;
```

```
}
```

Input: 234

Output: 9

2)Program to find reverse of a number?

```
#include<stdio.h>

int main()
{
    int num, sum = 0,temp, rem;
    printf("Enter a number: ");
    scanf("%d", &num);
    temp=num;
    while(num > 0)
    {
        rem = num % 10;    // get last digit
        sum = sum*10 + rem;    // add to sum
        num = num / 10;    // remove last digit
    }
    printf("reverse of a number is %d",sum);

    return 0;
}
```

Input: 123

Output: 321

3)Program to swap two numbers without using third Variable.

```
#include <stdio.h>

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

Input: 10 20

Output: a=20,b=10