

Sum of Digits.

```
#include <stdio.h>

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

Enter a number : 452

Sum of digits = 11.

2. Reverse a Number using functions.

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

```
int reverseNumber(int num);
```

```
int main()
```

```
{
```

```
int num, rev;
```

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

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

```
rev = reverseNumber(num);
```

```
printf("reversed number = %d\n", rev);
```

```
return 0;
```

```
}
```

```
int reversedNumber(int num)
```

```
{
```

```
int rev=0, digit;
```

```
int n=(num<0)? -num: num;
```

```
while(n>0){
```

```
digit = n%10;
```

```
rev = rev * 10 + digit;
```

```
n /= 10;
```

```
}
```

```
return (num<0)?
```

```
}
```

Enter a number: 1234

Reversed number = 4321

Swap two Number without using third Variable

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

```
int main()
```

```
{
```

```
    int a,b;
```

```
    printf("Enter two numbers");
```

```
    scanf("%d %d", &a, &b);
```

```
    printf("\n Before swapping: a=%d, b=%d\n", a, b);
```

```
    a = a+b;
```

```
    b = a-b;
```

```
    a = a-b;
```

```
    printf("After swapping: a=%d, b=%d\n", a, b);
```

```
    return 0;
```

```
}
```

```
Enter two number: 5 9
```

```
Before swapping: a=5, b=9
```

```
After swapping: a=9, b=5
```