

Sum of digit

```
#include <stdio.h>
int sumofdigit(int num);
int main()
{
    int num, sum;
    printf("Enter any number to find sum of digits: ");
    scanf("%d", &num);
    sum = sumofdigit(num);
    printf("Sum of digits = %d ", sum);
}

int sumofdigit (int num)
{
    if(num == 0)
        return 0;
    else
        return ((num % 10) + sumofdigit (num / 10));
}
```

Reverse

```
nclude<stdio.h>
#include<string.h>
void reverse(char *);
void main()
{
    char str[20];
    printf("Enter the String here: ");
    scanf("%s",str);
    reverse(str);
}

void reverse(char *str)
{
    if (*str)
    {
        reverse(str+1);
        printf("%c", *str);
    }
}
```

```
}
```

Prime number

```
#include<stdio.h>
int CheckPrime(int,int);
int main()
{
    int num;
    printf("Enter your Number:");
    scanf("%d",&num);

    if(CheckPrime(2,num)==0)
        printf("It is a Prime Number.");
    else
        printf("It is not a Prime Number.");
}

int CheckPrime(int i,int num)
{
    if(num==i)
        return 0;
    else
        if(num%i==0)
            return 1;
    else{
        return CheckPrime(i+1,num);
    }
}
```

Factorial

```
#include<stdio.h>
int multiplyNumbers(int n);
void main() {
    int n;
    int f;
    printf("Enter a positive integer: ");
    scanf("%d",&n);
    f = multiplyNumbers(n);
    printf("Factorial of %d = %ld", n, f);
}
```

```
}
```

```
int multiplyNumbers(int n)
```

```
{
```

```
    int ans;
```

```
    if (n>=1)
```

```
    {
```

```
        ans = n*multiplyNumbers(n-1);
```

```
        return ans;
```

```
    }
```

```
else
```

```
{
```

```
    return 1;
```

```
}
```

```
}
```