Factorial

```
def Factorial(num):
  if num < 0:
     return 0
  elif num == 0 or num == 1:
     return 1
  else:
     fact = 1
     while num > 1:
        fact *= num
        num -= 1
     return fact

num = int(input("Enter the value: "))
print("Factorial of",num,"is",Factorial(num))
```

Armstrong

```
num = int(input("Enter a value: "))
num_val = str(num)
num_len = len(num_val)

sum = 0
for i in num_val:
        sum += int(i) ** num_len
if sum == num:
        print(num," is Armstrong value")
else:
        print(num," is not Armstrong value")
```

Reverse String

```
def ReverseString(str):
   str = str[::-1]
   return str

str = "geeksforgeeks"
print(ReverseString(str))
```

Sorting

```
def AscendingSort(val):
    val.sort(reverse=True)
    return val

val =[]
n = int(input("Enter the number of elements : "))

for i in range(0, n):
    ele = int(input())
    val.append(ele)

print(val)
print(AscendingSort(val))
```

Prime Number

```
val = int(input("Enter a value: "))
if val > 1:
    for i in range(2, val):
        if(val % i) == 0:
            print(val," is not a prime number")
            break
    else:
        print(val," is a prime number")
else:
    print(val," is a prime number")
```

Palindrome

```
val = []
val = input("Enter the string: ")
if val == val[::-1]:
    print(val,"is a Palindrome")
else:
    print(val,"is not a palindrome")
```

Fibonacci

```
def isFibonacci(n):
   if n < 0:
      print("Incorrect Input")
   elif n == 0:
      return 0
   elif n == 1 or n == 2:
      return 1
   else:
      return isFibonacci(n-1) + isFibonacci(n-2)


n = int(input("Enter the value: "))
print(isFibonacci(n))
```

Character to ASCII

```
val = input("Enter the character: ")
print("ASCII value of "+val+" is", ord(val))
```

Count Character

```
val = input("Enter the string: ")
freq_str = {}

for i in val:
   if i in freq_str:
      freq_str[i] += 1
   else:
      freq_str[i] = 1

print(str(freq_str))
```

Finding Substring

```
def isSubstr(str1, str2):
   if (str1.count(str2) > 0):
      print("Yes")
   else:
      print("No")

str1 = input("Enter the first string: ")
str2 = input("Enter a second string: ")
isSubstr(str1, str2)
```