# To Find Factorial of a number

In [1]:
```
num= int(input('Enter a number:'))
fact=1

if num==0:
    print('fact=1')
elif num <0:
    print('Negative number')
else:
    for i in range(1, num+1):
        fact= fact*i
    print('The Factorial of the number', num, 'is', fact)
```

```
Enter a number:4
The Factorial of the number 4 is 24
```

# To Find whether a number is Prime or Composite

In [20]:
```
n= int(input('Enter a number:'))

if n==0 or n==1:
    print('Neither Prime nor composite')
else:
    for i in range(2,n):
        if(n % i ==0):

            print(n, 'is not a prime number')
            break
    else:
        print(n, 'is a prime number')
```

```
Enter a number:5
5 is a prime number
```

# To Check Whether the Given String is a Palindrome

In [24]:
```
x= input('Enter the string:')

y=""

for i in x:
    y= i + y

if (x==y):
    print('yes')
else:
    print('No')
```

```
Enter the string:madam
yes
```

# To Find the Third side of the right ngeled triangle from the two given sides

In [25]:
```
import math
x_base= float(input('Enter the number:'))
y_height= float(input('Enter the number:'))
z_hypotnese= math.sqrt((x_base **2)+(y_height **2))

print('Hypotnese:', z_hypotnese)
```

```
Enter the number:20
Enter the number:40
Hypotnese: 44.721359549995796
```

# To find the frequency of each of the characters in the string

In [28]:
```
def count_chr(str):
    for i in range(len(str)):
        if(len(str) ==0):
            break;
        x= str[0]
        if x == '' or x== '\t':
            continue
        print(x+'-', str.count(x))

        str= str.replace(x, '').strip()



count_chr('Girija ChandraMohan')
```

```
G- 1
i- 2
r- 2
j- 1
a- 4
C- 1
h- 2
n- 2
d- 1
M- 1
o- 1
```

In [ ]:
```

```