write a python program to find the factorial of a number

In [1]:

```
import math
def fact(n):
    return(math.factorial(n))
num=int(input('Enter a number'))
f=fact(num)
print("Factorial of ",num,"is : ",f)
```

```
Enter a number65
Factorial of  65 is :  8247650592082470666723170306785496252186258551345437492922123134388955774976000000000000000
```

12.write a python program to find whether a number is prime or composite

In [2]:

```
from math import sqrt
# n is the number to be check whether it is prime or not
n = 1

# no lets check from 2 to sqrt(n)
# if we found any facto then we can print as not a prime number

# this flag maintains status whether the n is prime or not
prime_flag = 0

if(n > 1):
    for  i in range(2, int(sqrt(n)) + 1):
        if (n % i == 0):
            prime_flag = 1
            break
    if (prime_flag == 0):
        print("true")
    else:
        print("false")
else:
        print("false")
```

```
false
```

13.write a python programm to check whether a given string is palindrome or not

string=input(("Enter a string:")) if(string==string[::-1]): print("The string is a palindrome") else: print("Not a palindrome")

14.write a Python program to get the third side of right-anngled triangle from two given sides

In [5]:

```
# Python implementation of the approach

# Function to return the hypotenuse of the
# right angled triangle
def findHypotenuse(side1, side2):

    h = (((side1 * side1) + (side2 * side2))**(1/2));
    return h;

 #Driver code
side1 = 3;
side2 = 4;
```

```
print(findHypotenuse(side1, side2));
```

```
5.0
```

15.write a python program to print the frequency of each of the characters present inn a given string

In [4]:

```
# Python3 code to find frequency of each word
# function for calculating the frequency
def freq(str):

    #break the string into list of words
    str_list = str.split()

    #gives set of unique words
    unique_words = set(str_list)

    for words in unique_words:
        print('Frequency of ', words , 'is :',str_list.count(words))

# driver code
if __name__== "__main__":

    str ='apple mango apple orange orange apple guava mango mango'

    # calling the freq function
    freq(str)
```

```
Frequency of  guava is : 1
Frequency of  apple is : 3
Frequency of  mango is : 3
Frequency of  orange is : 2
```

In [ ]:

```

```