In [1]:
```
# Python Programme to find fatorial of Number

def factorial(n):
    return 1 if(n==1 or n==0) else n * factorial(n-1);


num=5;
print ("factorial of", num, "is",
      factorial (num))
```

```
factorial of 5 is 120
```

In [2]:
```
num= 7;
print ("factorial of",num,"is",
      factorial(num))
```

```
factorial of 7 is 5040
```

Python program to find whether a number is prime or composite

In [3]:
```
num=int(input("Enter a number: "))
if num > 1:
    for i in range(2,num):
        if (num % i)==0:
            print(num,"is not a prime number")
            print(i,"times",num//i,"is",num)
            break
    else:
         print(num,"is a prime number")
else:
    print(num,"is not a prime number")
```

```
Enter a number: 93
93 is not a prime number
3 times 31 is 93
```

Python program to check whether a given string is palindrome or not.

In [5]:
```
def isPalindrome(str):


    for i in range(0, int(len(str)/2)):
        if str[i] != str[len(str)-i-1]:
            return False
    return True


s = "malyalam"
ans = isPalindrome(s)

if (ans):
    print("Yes")
else:
    print("No")
```

```
No
```

Python program to get the third side of right-angled triangle from two given sides

In [7]:
```
from math import sqrt
print ("Input lengths of shorter triangle sides: ")
a=float(input("a : "))
b=float(input("b: "))
c=sqrt(a**2 + b**2)
print("length of the hypotenuse is: ",c)
```

```
Input lengths of shorter triangle sides:
a : 9
b: 7
length of the hypotenuse is:  11.40175425099138
```

Python program to print the frequency of each of the characters present in a given string

In [8]:
```
string=input("Enter the string ")
freq=[None]*len(string)
for i in range(0,len(string)):
  freq[i]=1
  for j in range(i+1,len(string)):
    if(string[i]==string[j]):
        freq[i]=freq[i]+1
        string=string[:j]+'0'+string[j+1:];
print("Character and their frequency");
for i in range(0,len(freq)):
    if(string[i]!=' ' and string[i]!='0'):
        print(string[i]+"="+str(freq[i]))
```

```
Enter the string iloveindia
Character and their frequency
i=3
l=1
o=1
v=1
e=1
n=1
d=1
a=1
```

In [ ]: