In [1]:
```
# 11 Write a python program to find the factorial of a number

import math

def factorial(n):
    return(math.factorial(n))

num=6
print("Factorial of", num, "is",
      factorial(num))
```

```
Factorial of 6 is 720
```

In [2]:
```
# 12 Write a python program to find whether a number is prime or composite.

n= int(input("Enter any number:"))
if(n ==0 or n == 1):
    printf(n,"Number is neither prime nor composite")
elif n>1 :
    for i in range(2,n):
        if(n%i == 0):
            print(n,"is not prime but composite number")
            break
    else:
        print(n,"number is prime but not composite number")
else :
    print("Please enter positive number only ")
```

```
Enter any number:5
5 number is prime but not composite number
```

In [5]:
```
#13 Write a python program to check whether a given string is palindrome or not.

def isPalindrome(s):
    return s == s[::-1]

s = "English"
ans = isPalindrome(s)

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

```
No
```

In [6]:
```
# 14 Write a Python program to get the third side of right-angled triangle from two given sides.

def pythagoras(opposite_side,adjacent_side,hypotenuse):
        if opposite_side == str("x"):
            return ("Opposite = " + str(((hypotenuse**2) - (adjacent_side**2))**0.5))
        elif adjacent_side == str("x"):
            return ("Adjacent = " + str(((hypotenuse**2) - (opposite_side**2))**0.5))
        elif hypotenuse == str("x"):
            return ("Hypotenuse = " + str(((opposite_side**2) + (adjacent_side**2))**0.5))
        else:
            return "Done!"

print(pythagoras(3,4,'x'))
print(pythagoras(3,'x',5))
print(pythagoras('x',4,5))
print(pythagoras(3,4,5))
```

```
Hypotenuse = 5.0
Adjacent = 4.0
Opposite = 3.0
Done!
```

In [8]:
```
#15 Write a python program to print the frequency of each of the characters present in a given string

_str = "PythonProgramming"


all_freq = {}

for i in _str:
    if i in all_freq:
        all_freq[i] += 1
    else:
        all_freq[i] = 1

print("Count of all characters in PythonProgramming is :\n "
                                      +  str(all_freq))
```

```
Count of all characters in PythonProgramming is :
 {'P': 2, 'y': 1, 't': 1, 'h': 1, 'o': 2, 'n': 2, 'r': 2, 'g': 2, 'a': 1, 'm': 2, 'i': 1}
```

In [ ]:
```

```