CodeMarkdownRaw NBConvertHeading-

In [1]:

```
#Write a python program to find the factorial of a number.
num = int(input("Please enter a number:"))
factorial = 1
if num < 0:
  print(" Oops, number cannot be negative")
elif num == 0:
  print("The factorial of 0 is 1")
else:
  for i in range(1,num + 1):
      factorial = factorial*i
  print("The factorial of",num,"is",factorial)
```

Please enter a number:14
The factorial of 14 is 87178291200

In [9]:

```
#Write a python program to find whether a number is prime or composite.
num = int(input("Enter any number : "))
if num > 1:
   for n in range(2, num):
       if (num % n) == 0:
           print(num, "is a composite number")
           break
   else:
       print(num, "is a PRIME number")
elif num == 0 or 1:
   print(num, "is neither prime NOR composite number")
else:
   print(num, "is NOT a prime number it is a COMPOSITE number")
```

Enter any number : 5
5 is a PRIME number

In [5]:

```
#Write a Python program to get the third side of right-angled triangle from
two given sides
from math import sqrt
def hypotenuse():
   a=int(input("Enter the value for oppositeside:"))
   b=int(input("Enter the value for adjacentside:"))
   c=sqrt(a**2+b**2)
   print("The length of hypotenuse is:",c)
```

In [6]:

```
hypotenuse()
```

Enter the value for oppositeside:5
Enter the value for adjacentside:6
The length of hypotenuse is: 7.810249675906654

In [5]:

```
#Write a python program to print the frequency of each of the characters
present in a given string.
string = "mother"

freq = {i: string.count(i)for i in set(string)}

print(freq)
```

{'t': 1, 'e': 1, 'm': 1, 'r': 1, 'h': 1, 'o': 1}

Link:
http://localhost:8889/notebooks/python%20worksheet1.ipynb