

FIND THE FACTORIAL NUMBER

In [1]:

```
num = int(input("Enter Factorial Number = "))
fac = 1

if num <= 0:
    print ("Factorial is 1")

else:
    print ( "Factorial Calculation Method")

    for i in range (1, num+1):

        f = fac * i

        print (fac, "*", i, "=", f)

        fac = f

    print ("\nFactorial", num , "is", fac)
```

Enter Factorial Number = 12
Factorial Calculation Method
1 \* 1 = 1
1 \* 2 = 2
2 \* 3 = 6
6 \* 4 = 24
24 \* 5 = 120
120 \* 6 = 720
720 \* 7 = 5040
5040 \* 8 = 40320
40320 \* 9 = 362880
362880 \* 10 = 3628800
3628800 \* 11 = 39916800
39916800 \* 12 = 479001600

Factorial 12 is 479001600

FIND THE PRIME NUMBER AND COMPOSITE NUMBER

In [2]:

```
number = int(input("Enter any number:"))
if number ==1:
    print ("This is not Prime and not Composite")
else:
    for i in range(2,number):
        if (number%i)==0:
            print(number, "is Composite number")
            break
    else:
        print(number, "is prime number")
```

Enter any number:45
45 is Composite number

CHECK WHETHER A GIVEN STRING IS PALINDROME OR NOT

In [3]:

```
string = input("Enter Any Word: ")

rev_string = string[::-1]

if string == rev_string:
    print ("This Word is Palindrome")

else:

    print ("This Word is Not Palindrome")
```

Enter Any Word: Sagar
This Word is Not Palindrome

FIND THE ANGLE FOR TRIANGLE

In [4]:

```
import math

a = float(input("Enter the Base A = "))
b = float(input("Enter the Base B = "))

c=math.sqrt(a*a + b*b)
print ("3rd Side of Right Angle", float(c))
```

Enter the Base A = 4
Enter the Base B = 2
3rd Side of Right Angle 4.47213595499958

FIND FREQUENCY OF EACH OF THE CHARACTER PRESENT IN A GIVEN STRING

In [5]:

```
a = input("Enter any String: ")

count = {}

for x in a:
    if x in count.keys():
        count[x]+=1
    else:
        count[x]=1

for x in count.keys():
    print (x, "Number of", count[x], "times")
```

Enter any String: Jitendra Singh Gahlot
J Number of 1 times
i Number of 2 times
t Number of 2 times
e Number of 1 times
n Number of 2 times
d Number of 1 times
r Number of 1 times
a Number of 2 times
S Number of 2 times
S Number of 1 times
g Number of 1 times
h Number of 2 times
G Number of 1 times
l Number of 1 times
o Number of 1 times

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In [ ]: