11. Write a python program to find the factorial of a number.

In [1]:

```
# Python program to find the factorial of a number provided by the user.

# change the value for a different result
#num = 5

# To take input from the user
num = int(input("Enter a number: "))

factorial = 1

# check if the number is negative, positive or zero
if num < 0:
    print("Sorry, factorial does not exist for negative numbers")
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)
```

```
Enter a number: 5
The factorial of 5 is 120
```

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

In [1]:

```
num = int(input("Enter any number : "))
if num > 1:
    for i in range(2, num):
        if (num % i) == 0:
            print(num, "is NOT a prime number")
            break
    else:
        print(num, "is a PRIME number")
elif num == 0 or 1:
    print(num, "is a neither prime NOR composite number")
else:
    print(num, "is NOT a prime number it is a COMPOSITE number")
```

```
Enter any number : 36
36 is NOT a prime number
```

13. Write a python program to check whether a given string is palindrome or not.

In [2]:

```
st = input("Please enter your own text : ")

if(st == st[:: - 1]):
    print("This is a Palindrome String")
else:
    print("This is Not Palindrome")
```

```
Please enter your own text : malyaylam
This is a Palindrome String
```

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

In [4]:

```
import math

a = float(input("Enter base: "))
b = float(input("Enter height: "))


c = math.sqrt(a ** 2 + b ** 2)

print("Hypotenuse =", c)
```

```
Enter base: 3
Enter height: 4
Hypotenuse = 5.0
```

15. Write a python program to print the frequency of each of the characters present in a given string.

In [8]:

```
string = "knowledge is the power"

for i in string:
    frequency = string.count(i)
    print(str(i) + ": " + str(frequency), end=", ")
```

```
k: 1, n: 1, o: 2, w: 2, l: 1, e: 4, d: 1, g: 1, e: 4,  : 3, i: 1, s: 1,  :
3, t: 1, h: 1, e: 4,  : 3, p: 1, o: 2, w: 2, e: 4, r: 1,
```

In [ ]:

```

```