11. #Factorial of number

```
n=int(input('Factorial of number :'))

n1=1

if n<0:

    print('Negative value donot have factorial')

elif n==0 or n==1:

    print('Factorial of 0 or 1 is 1')

else:

    for j in range(1,n+1):

        n1=n1*j

    print('The factorial of ', n, 'is', n1)
```

```
Result: Factorial of number :4
The factorial of  4 is 24
```

```
#factorial of number


import math as num


print(num.factorial(3))

print(num.factorial(7))

print(num.factorial(10))
```

```
Result: 6
5040
3628800
```

12. #find number is prime or composite

```
p = int(input("Enter any number : "))

if p > 1:

    for i in range(2, p):

        if (p % i) == 0:

            print(p, "is a composite number")

            break

    else:
```

```
        print(p, "is a prime number")

elif p == 0 or 1:

    print(p, "is neither prime nor composite")
```

```
Result: Enter any number : 67
67 is a prime number
```

```
13. #third side of right angled triangle

def pythagoras(p,q,h):

    if h==str('x'):

        return('h =' + str(((p**2)+(q**2))**0.5))

print(pythagoras(10,8,'x'))
```

```
Result: h =12.806248474865697
```

```
14. #Check whether given string is palindrome or not

def palindrome(i):

    return i==i[::-1]

i=str(input('String is :'))

result=palindrome(i)

if result:

    print(i,': Yes it is palindrome')

else :

    print(i,': No it is not palindrome')
```

```
Result: String is :123321
123321 : Yes it is palindrome
```

```
15. #frequency of string

p=input('Enter String')

for j in p:

    print(j,'occured',p.count(j),'times')
```

```
Result: Enter Stringwelcome to flip robo
w occured 1 times
e occured 2 times
l occured 2 times
c occured 1 times
o occured 4 times
m occured 1 times
e occured 2 times
  occured 3 times
t occured 1 times
o occured 4 times
  occured 3 times
```

```
f occured 1 times
l occured 2 times
i occured 1 times
p occured 1 times
  occured 3 times
r occured 1 times
o occured 4 times
b occured 1 times
o occured 4 times


#frequency of string

p=input('Enter String: ')

q={}

for i in p:

    q[i]=q.get(i,0)+1

print(q.items())

for key,value in q.items():

    print(key,'occured',value,'times')

Result: Enter String: welcome to flip robo
dict_items([('w', 1), ('e', 2), ('l', 2), ('c', 1), ('o', 4), ('m', 1), (' ', 3), ('t', 1),
('f', 1), ('i', 1), ('p', 1), ('r', 1), ('b', 1)])
w occured 1 times
e occured 2 times
l occured 2 times
c occured 1 times
o occured 4 times
m occured 1 times
  occured 3 times
t occured 1 times
f occured 1 times
i occured 1 times
p occured 1 times
r occured 1 times
b occured 1 times
```