In [1]:
```
# program to find factorial of a number
```

In [12]:
```
def factorial(number):
    fact=1
    for i in range(1,number+1):
        fact=fact*i
    return fact
number=int(input("Enter the number"))
results=factorial(number)
print('The factorial of %d = %d'%(number,results))
```

```
Enter the number5
The factorial of 5 = 120
```

In [13]:
```
# program to find whether a number is prime or composite
```

In [23]:
```
n=int(input('enter the number'))
if(n==0 or n==1):
    print(n,'number is neighter prime or composite')
elif n>1:
    for i in range(2,n):
        if(n%i==0):
            print(n,"number is not prime but composite ")
            break
    else:
        print(n,'number is prime but not composite ')
else:
    print('please enter the positive number ')
```

```
enter the number88
88 number is not prime but composite
```

In [24]:
```
# program to find whether the sting is palindrome or not
```

In [39]:
```
name=input('enter the string value')
name1=""
for i in name:
    name1=i+name1
if (name==name1):
    print('given string is palindrome')
else:
    print('given string is not palindrome')
```

```
enter the string valueaaa
given string is palindrome
```

In [40]:
```
# program to find the hypotenuse of triangle
```

In [46]:
```
from math import sqrt
first_side=float(input('enter the first side value of right angle triangle '))
second_side=float(input('enter the second side value of right angle triangle  '))
hypotenuse=sqrt(first_side**2 + second_side**2)
print('lenght of the hypotenuse value is',hypotenuse)
```

```
enter the first side value of right angle triangle 16
enter the second side value of right angle triangle  16
lenght of the hypotenuse value is 22.627416997969522
```

In [47]:
```
# program to find the frequency of each of the charecters present in a given sting
```

In [57]:
```
string_value=input('enter the string')
d=dict()
for i in string_value:
    if i in d:
        d[i]=d[i]+1
    else:
        d[i]=1
print("frequency of each charecter present in a given string = ",d)
```

```
enter the stringhemanth
frequency of each charecter present in a given string =  {'h': 2, 'e': 1, 'm': 1, 'a': 1, 'n': 1, 't': 1}
```

In [ ]:
```

```