#### Factorial number without using parameters

```
In [3]:

def fact():
    fact=1
    n=int(input('enter the number: '))
    for i in range(1,n+1):
        fact=fact*i
    print(fact)
fact()
```

# Factorial number using parameters

24

```
In []:

def fact(n):
    fact=1
    for i in range(1,n+1):
        fact=fact*i
    print(fact)
x=int(input('enter the number: '))
fact(x)
```

## Even numbers using parameters

```
def evenums(l,u):
    for i in range(l,u):
        if i%2==0:
             print(i)
lower=int(input("Enter lower limit :"))
```

H

```
Enter lower limit :5
Enter upper limit :20
6
8
10
12
14
16
18
```

evenums(lower,upper)

upper=int(input("Enter upper limit :"))

In [5]:

#### **Even numbers without using parameters**

```
In [6]:

def evennum():
    lower=int(input("Enter lower limit :"))
    upper=int(input("Enter upper limit :"))
    for i in range(lower, upper):
        if i%2==0:
            print(i)
evennum()
```

```
Enter lower limit :5
Enter upper limit :20
6
8
10
12
14
16
18
```

## Global scope:

```
In [7]:

v=100
def myfun():
    print(v)
myfun()
print(v)
```

100 100

#### Local value:

```
In [8]:

def myfun():
    v=12
    print(v)
myfun()
print(v)

12
100

Passing Arguments:
```

```
In [9]:

def user(*args):
    print(args)
user('shiv',12,2444)

('shiv', 12, 2444)

In [18]:

s=lambda *args:sum(args)
s(1,2,3),s(3,4,5),s(7,8)

Out[18]:
(6, 12, 15)
```

### Given number prime number or not

```
In [15]:

def prime(n):
    n=int(input('enter the number'))
    for i in range (2,n):
        if n%i==0:
            print(' given number is not prime number')
        else:
            print('given number is prime number')
            break
prime(n)
```

```
enter the number11 given number is prime number
```

```
In [16]: ▶
```

```
def prime():
    n=int(input('enter the number'))
    for i in range (2,n):
        if n%i==0:
            print(' given number is not prime number')
        else:
            print('given number is prime number')
            break
prime()
```

enter the number7
given number is prime number

In []: