In [18]:
```
#list of number to check even number
def even_nu(num_list):
    for i in num_list:
        if i%2==0:
            return True
        else:
            pass

    return True
for s in range(0,2):
    d=int(input("enter number"))
    m=[d]
print(even_nu(m))
```

```
enter number8
enter number5
True
```

In [ ]:
```
#list of number to check even number
def even_nu(num_list):
    array=[]
    for i in num_list:
        if i%2==0:
            array.append(i)
        else:
            print("odd numbers:",i)

    return array
lis=[]
n=int(input("enter n:"))
for s in range(0,n):
    d=int(input("enter number"))
    lis.append(d)
    print(even_nu(lis))
```

In [32]:
```
3
4
```

Out[32]:
```
4
```

In [38]:
```
#in order to take multi arguments at a time we use *args while calling we can use as many values as we want and do operation
# * args return tuple
def mult_args(*args):
    print(args)
mult_args(10,20)
```

```
(10, 20)
```

In [46]:
```
def multi_args(*args):
    for i in  args:
        print("*"*i)
n=int(input("enter numbers"))
for s in range(0,n):
    multi_args(s)
```

```
enter numbers5

*
**
***
****
```

In [51]:
```
#**kwargs returns dictionary
def key_args(**kwargs):
    print(kwargs)
    if 'fruit' in kwargs:
        print("fruit of my choice :{}".format(kwargs['fruit']))
    else:
        print("could not find any fruit")
#fruit=input("enter fruuit")

key_args(fruit='apple',veg='knol hol')
```

```
{'fruit': 'apple', 'veg': 'knol hol'}
fruit of my choice :apple
```

In [56]:
```
#use both args and keyword arguments
def both(*args,**kwargs):
    print(args)
    print(kwargs)
    print("i would like {} or more {}".format(args[0],kwargs['fruit']))
n=int(input("enter number :"))
both(n,food='eggs',fruit='apple')
```

```
enter number :10
(10,)
{'food': 'eggs', 'fruit': 'apple'}
i would like 10 or more apple
```

In [60]:
```
def myfunc(*args):
    for i in args:
        if i%2==0:
            return i
myfunc(2,5,8)
```

Out[60]:
```
2
```

In [64]:
```
def myfunc(str):
    out=''
    for i in range(len(str)):
        if i%2==0:
            out+=  str[i].upper()
        else:
            out+= str[i].lower()
    return out
string=input("enter string")
myfunc(string)
```

```
enter stringmy name is aamir
```

Out[64]:
```
'My nAmE Is aAmIr'
```

In [ ]:
```

```