RANGE FUNCTION CODE

PART 1: When "Start" and "Step" was GIVEN

In [8]:

```python
def my_range(x,y,z):
    if x==0:
        if z>0:
            while x<y:
                print(x)
                x+=z
        elif z<0:
            while x>y:
                print(x)
                x+=z
    else:
        if z>0:
            while x<y:
                print(x)
                x+=z
        else:
            while x>y:
                print(x)
                x+=z
choice1=str(input("Do you want to give the choice for start value? yes/no: "))
if choice1=="yes":
    x=int(input("enter the start value: "))
elif choice1=="no":
    print("taking 0 as start value by default")
    x=0
else:
    print("this choice is not defined")
y=int(input("enter the stop value: "))
choice2=input("Do you want to give a step size? yes/no: ")
if choice2=="yes":
    z=int(input("enter the step value: "))
elif choice2=="no":
    print("taking 1 as step size by default")
    z=1
else:
    print('this choice is not defined')
my_range(x,y,z)
```

```
Do you want to give the choice for start value? yes/no: yes
enter the start value: 2
enter the stop value: 10
Do you want to give a step size? yes/no: yes
enter the step value: 2
2
4
6
8
```

PART 2:

When "Start" was GIVEN but "Step" was set BY DEFAULT AS 1

In [9]:

```python
def my_range(x,y,z):
    if x==0:
        if z>0:
            while x<y:
                print(x)
                x+=z
        elif z<0:
            while x>y:
                print(x)
                x+=z
    else:
        if z>0:
            while x<y:
                print(x)
                x+=z
        else:
            while x>y:
                print(x)
                x+=z
choice1=str(input("Do you want to give the choice for start value? yes/no: "))
if choice1=="yes":
    x=int(input("enter the start value: "))
elif choice1=="no":
    print("taking 0 as start value by default")
    x=0
else:
    print("this choice is not defined")
y=int(input("enter the stop value: "))
choice2=input("Do you want to give a step size? yes/no: ")
if choice2=="yes":
    z=int(input("enter the step value: "))
elif choice2=="no":
    print("taking 1 as step size by default")
    z=1
else:
    print('this choice is not defined')
my_range(x,y,z)
```

```
Do you want to give the choice for start value? yes/no: yes
enter the start value: 1
enter the stop value: 5
Do you want to give a step size? yes/no: no
taking 1 as step size by default
1
2
3
4
```

PART 3:

When "Start" was set BY DEFAULT AS 0 but "Step" was set GIVEN

In [15]:

```python
def my_range(x,y,z):
    if x==0:
        if z>0:
            while x<y:
                print(x)
                x+=z
        elif z<0:
            while x>y:
                print(x)
                x+=z
    else:
        if z>0:
            while x<y:
                print(x)
                x+=z
        else:
            while x>y:
                print(x)
                x+=z
choice1=str(input("Do you want to give the choice for start value? yes/no: "))
if choice1=="yes":
    x=int(input("enter the start value: "))
elif choice1=="no":
    print("taking 0 as start value by default")
    x=0
else:
    print("this choice is not defined")
y=int(input("enter the stop value: "))
choice2=input("Do you want to give a step size? yes/no: ")
if choice2=="yes":
    z=int(input("enter the step value: "))
elif choice2=="no":
    print("taking 1 as step size by default")
    z=1
else:
    print('this choice is not defined')
my_range(x,y,z)
```

```
Do you want to give the choice for start value? yes/no: no
taking 0 as start value by default
enter the stop value: 12
Do you want to give a step size? yes/no: yes
enter the step value: 2
0
2
4
6
8
10
```

PART 4:

When "Start" and "Step" both set on their "by defaults" as 0 and 1 respectively.

In [12]:

```python
def my_range(x,y,z):
    if x==0:
        if z>0:
            while x<y:
                print(x)
                x+=z
        elif z<0:
            while x>y:
                print(x)
                x+=z
    else:
        if z>0:
            while x<y:
                print(x)
                x+=z
        else:
            while x>y:
                print(x)
                x+=z
choice1=str(input("Do you want to give the choice for start value? yes/no: "))
if choice1=="yes":
    x=int(input("enter the start value: "))
elif choice1=="no":
    print("taking 0 as start value by default")
    x=0
else:
    print("this choice is not defined")
y=int(input("enter the stop value: "))
choice2=input("Do you want to give a step size? yes/no: ")
if choice2=="yes":
    z=int(input("enter the step value: "))
elif choice2=="no":
    print("taking 1 as step size by default")
    z=1
else:
    print('this choice is not defined')
my_range(x,y,z)
```

```
Do you want to give the choice for start value? yes/no: no
taking 0 as start value by default
enter the stop value: 4
Do you want to give a step size? yes/no: no
taking 1 as step size by default
0
1
2
3
```