## Range and Enumerate Function ¶

## range() function

```
In [ ]:
```

```
1  >> it will work on only integers
2  >> range(start_index, end_index, step_size)
3  step_size : optional
4  start_index : included
5  end_index : excluded
6
7  >>
```

## In [2]:

```
1 | for i in range(1,11): # 1 to 10 for Loop : 1 ot 10
        print(i)
1
2
3
4
5
6
7
8
9
10
In [5]:
    for vishal in range(1,5): # 1 to 4 for Loop : 1 ot 4
 2
        print(vishal)
```

```
In [11]:
 1 for i in range(1,21,2): # step size 2 : 2 - 1 : 1
 2
        print(i)
1
3
5
7
9
11
13
15
17
19
In [13]:
 1 # profram to create table of 5
   for i in range(5,51,5): # step_size : 5 : 5-1 = 4
 3
        print(i)
5
10
15
20
25
30
35
40
45
50
In [17]:
    # profram to create table of 5
 2
   for i in range(5,51):
 3
        if i%5==0:
 4
            print(i)
5
10
15
20
25
30
35
40
45
50
In [19]:
 1 for j in range(1,6):
        print(j , end = " ")
```

```
In [25]:
 1 | for j in range(1,5.5): # range () fn will work only with integers (whole numbers )
       print(j , end = " ")
_____
                                       Traceback (most recent call las
TypeError
t)
Cell In[25], line 1
----> 1 for j in range(1,5.5): # range () fn will work only with integer
s (whole numbers )
          print(j , end = " ")
     2
TypeError: 'float' object cannot be interpreted as an integer
In [26]:
 1 name="Yash Joshi"
 2 for ch in name :
 3
       print(ch)
 4
Υ
а
S
h
J
0
S
h
i
In [28]:
 1 name="Yash Joshi"
 2 for i in range(0,len(name)) :
 3
      print(name[i])
Υ
а
s
h
J
0
S
h
i
```

```
In [29]:
 1 name="Yash Joshi"
 2 for i in range(0,len(name)) :
        print(f" Character at {i} ---- > {name[i]}")
Character at 0 ---- > Y
Character at 1 ---- > a
Character at 2 ---- > s
Character at 3 ---- > h
Character at 4 ---- >
Character at 5 ---- > J
Character at 6 ---- > o
Character at 7 ---- > s
Character at 8 ---- > h
Character at 9 ---- > i
enumerate() function
In [32]:
 1 stud_name="Akanksha"
 2 stud_name
Out[32]:
'Akanksha'
In [34]:
    stud_name="Akanksha"
 2 for ch in stud_name:
 3
        print(ch)
Α
k
а
n
k
```

s h a

```
In [36]:
```

```
stud_name="Akanksha"
    index=0
 2
    for ch in stud_name:
 3
        print(index , ch)
 4
        index=index+1
 5
0 A
1 k
2 a
3 n
4 k
5 s
6 h
7 a
In [40]:
    stud_name="Akanksha"
 2
 3
    for index , ch in enumerate(stud_name):
        print(index , ch)
 4
 5
 6
0 A
1 k
2 a
3 n
4 k
5 s
6 h
7 a
In [47]:
    city_list=["Pune",'Ambajogai','Mumbai','Delhi','Chennai','Hydrabad']
    for index , city in enumerate(city_list):
 3
 4
        print(f" city name at {index} is {city}")
 5
 city name at 0 is Pune
 city name at 1 is Ambajogai
 city name at 2 is Mumbai
 city name at 3 is Delhi
 city name at 4 is Chennai
 city name at 5 is Hydrabad
```

```
In [51]:
```

```
city_list={"Pune",'Ambajogai','Mumbai','Delhi','Chennai','Hydrabad'}
print(city_list, type(city_list))
for index , city in enumerate(city_list):
    print(f" city name at {index} is {city}")

{'Hydrabad', 'Chennai', 'Ambajogai', 'Pune', 'Delhi', 'Mumbai'} <class 's
et'>
city name at 0 is Hydrabad
city name at 1 is Chennai
city name at 2 is Ambajogai
city name at 3 is Pune
city name at 4 is Delhi
city name at 5 is Mumbai
In []:
```