

In [5]:

```
mylist = [1,2,3,4,5,6,7,8,9,10]
```

In [6]:

```
for num in mylist:  
    print(num)
```

1
2
3
4
5
6
7
8
9
10

In [9]:

```
for num in mylist:                                #check for even num  
    if num % 2 == 0:  
        print(num)  
    else:  
        print(f'Odd number: {num}')
```

Odd number: 1
2
Odd number: 3
4
Odd number: 5
6
Odd number: 7
8
Odd number: 9
10

In [10]:

```
mystring = 'HELLO WORLD'  
for letter in mystring:  
    print(letter)
```

H
E
L
L
O

W
O
R
L
D

In [12]:

```
tup = (1,2,3)
for item in tup:
    print(item)
```

1
2
3

In [13]:

```
mylist = [(1,2),(3,4),(5,6),(7,8)]
```

In [14]:

```
len(mylist)
```

Out[14]:

4

In [15]:

```
for item in mylist:
    print(item)
```

(1, 2)
(3, 4)
(5, 6)
(7, 8)

In [17]:

```
# tuple unpacking
for a,b in mylist:
    print(a)
    print(b)
```

1
2
3
4
5
6
7
8

In [18]:

```
mylist = [(1,2,3),(4,5,6),(7,8,9)]
for a,b,c in mylist:
    print(b)
```

2
5
8

In [26]:

```
#dictionary
d = {'k1':1, 'k2':2, 'k3':3}
for item in d:
    print(item)
```

#with only keys
#for only values ----> for value in d.values:
#for only keys -----> for key in d.keys

k1
k2
k3

In [27]:

```
d = {'k1':1, 'k2':2, 'k3':3}
for item in d.items():
    print(item)
```

#with keys and values

('k1', 1)
('k2', 2)
('k3', 3)

In [28]:

```
d = {'k1':1, 'k2':2, 'k3':3}
for key,value in d:
    print(value)
```

#unpacking

1
2
3

In []:

In []:

#While loop

In [2]:

```
x = 0
while x < 5:
    print(f'The current value of x is {x}')
    x = x + 1
```

The current value of x is 0
The current value of x is 1
The current value of x is 2
The current value of x is 3
The current value of x is 4

In []:

In [3]:

```
x = 0
while x < 5:
    print(f'The current value of x is {x}')
    x += 1
else:
    print("x is not less than 5")
```

The current value of x is 0
The current value of x is 1
The current value of x is 2
The current value of x is 3
The current value of x is 4
x is not less than 5

In [5]:

```
# keywrds
```

In [10]:

```
#keyword CONTINUE
mystring = 'banana'
```

In [11]:

```
for letter in mystring:
    if letter == 'a':    #continue without minding letter 'a'
        continue
    print(letter)
```

b
n
n

In [13]:

```
#keyword BREAK
for letter in mystring:
    if letter == 'a':    #it breaks out when 'a' comes
        break
    print(letter)
```

b

In [1]:

```
x = 0
while x < 5:
    if x == 2:
        break
    print(x)
    x += 1
```

0
1

In []:

In []:

In []:

In []:

In []:

In []: