

```
In [18]: iterable_object = (1 , 2 , 3 , 4)
        for i in iterable_object :
            print(i ** 2)
```

1  
4  
9  
16

```
In [19]: mylist = [1 , 2 , 3 , "Hey" , [1,2,3]]
        for element in mylist:
            print(element)
```

1  
2  
3  
Hey  
[1, 2, 3]

```
In [1]: greeting = "Welcome to this course"
        is_there_a = False

        for char in greeting:
            if char == "a":
                is_there_a = True

        if is_there_a==True:
            print("There's a in the greeting sentence")
        else:
            print("There's no a in the greeting sentence")
```

There's a in the greeting sentence

```
In [22]: my_dictionary = {"Name" : "Kaveh" , "Age" : 21 , "Family Name" : "Masoumi"}
        print(my_dictionary.keys())
        for i in my_dictionary.keys():
            if i == "Age":
                print("My age is:")
                print(my_dictionary["Age"])
```

dict\_keys(['Name', 'Age', 'Family Name'])  
My age is:  
21

```
In [28]: my_list = [("Age" , 21) , ("Name" , "Kaveh") , ("Family Name" , "Masoumi")]
        for (a , b) in my_list:
            print(a)
            print(b)
```

Age  
21  
Name  
Kaveh  
Family Name  
Masoumi

```
In [ ]:
```

```
In [2]: numbers = []
```

```
In [3]: for x in range(1,101):
        numbers.append(x)
```

```
In [4]: print(numbers)

[1, 2, 3, 4, 5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 2
4, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 4
9, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 7
4, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 9
9, 100]
```

```
In [6]:
```

```
In [7]: adj = ["red", "big", "tasty"]
        fruits = ["apple", "banana", "cherry"]

        for x in adj:
            for y in fruits:
                print(x, y)

red apple
red banana
red cherry
big apple
big banana
big cherry
tasty apple
tasty banana
tasty cherry
```

```
In [10]: numbers = [
            [1,2,3],
            [4,5,6],
            [7,8,9],
            [10,11,12],
        ]
```

```
In [11]: for i in numbers:
        for j in i:
            print(i, j)

[1, 2, 3] 1
[1, 2, 3] 2
[1, 2, 3] 3
[4, 5, 6] 4
[4, 5, 6] 5
[4, 5, 6] 6
[7, 8, 9] 7
[7, 8, 9] 8
[7, 8, 9] 9
[10, 11, 12] 10
[10, 11, 12] 11
[10, 11, 12] 12
```

```
In [ ]:
```