python include loops:-

this operations are very useful for choices,iterate, display etc....

...

```
In [1]: fruits = ["apple", "banana", "cherry"]
        print(fruits)
```

```
['apple', 'banana', 'cherry']
```

for Loop:-

```
In [2]: for x in fruits:
            print(x)
```

```
apple
banana
cherry
```

```
In [3]: for x in "banana":
            print(x)
```

```
b
a
n
a
n
a
```

using if with break & continue

```
In [4]: for x in fruits:
            print(x)
            if x == "banana":
                break
```

```
apple
banana
```

```
In [5]: for x in fruits:
            if x == "banana":
                break
            print(x)
```

```
apple
```

```
In [6]: for x in fruits:
          if x == "banana":
            continue
          print(x)
```

```
apple
cherry
```

using range

```
In [7]: for x in range(2, 6):
          print(x)
```

```
2
3
4
5
```

```
In [8]: for x in range(6):
          print(x)
```

```
0
1
2
3
4
5
```

while loop:-

```
In [9]: i = 1
        while i < 6:
          print(i)
          i += 1
```

```
1
2
3
4
5
```

using if with break & continue

```
In [10]: i = 1
         while i < 6:
           print(i)
           if (i == 3):
             break
           i += 1
```

```
1
2
3
```

```
In [11]: i = 0
         while i < 6:
           i += 1
           if i == 3:
             continue
           print(i)
```

```
1
2
4
5
6
```

if else loop:-

elif

```
In [12]: a = 33
         b = 33
         if b > a:
           print("b is greater than a")
         elif a == b:
           print("a and b are equal")
```

```
a and b are equal
```

else

```
In [13]: a = 200
         b = 33
         if b > a:
           print("b is greater than a")
         elif a == b:
           print("a and b are equal")
         else:
           print("a is greater than b")
```

```
a is greater than b
```

In [14]:
```python
a = 200
b = 33
if b > a:
  print("b is greater than a")
else:
  print("b is not greater than a")
```

b is not greater than a

oneline

In [15]:
```python
if a > b:
    print("a is greater than b")
```

a is greater than b

and/or

In [16]:
```python
a = 200
b = 33
c = 500
if a > b and c > a:
  print("Both conditions are True")
```

Both conditions are True

In [17]:
```python
a = 200
b = 33
c = 500
if a > b or c > a:
  print("Both conditions are True")
```

Both conditions are True

Done by:-

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