```
In [ ]: # 1 Conditional statement
            # if
            # If -else
            # If elif else
            # Nested If else
        # Iterative statement
            # for
            # while
        # Transfer statement
            # pass
            # break
            # continue
In [ ]: #Syntax
        # if (condition):
              statement
In [1]: grade = 70
        if grade >=30:
            print("Passsing grade")
        Passsing grade
In [5]: num = 10
        if num > 0:
            print(num)
        10
In [ ]: # If - else
        #syntax
        # if (condition):
              statement
              else:
                  statement
```

```
In [9]: |num = 10|
         if num < 0:
             print(num)
         else:
             print(f"Else condition values {num}")
         Else condition values 10
In [17]: grade = 50
         if grade > 40:
             print("Pass")
         else:
             print("Fail")
         Pass
In [21]: grade = int(input("Please input the marks values : "))
         if grade > 40:
             print("Pass")
         else:
             print("Fail")
         Please input the marks values : 60
         Pass
In [24]: # If -elif - else
         num = 1
         if num > 0:
             print("positive number")
         elif num == 0:
             print("zero")
         else:
             print("negative number")
         positive number
In [28]:
         num1 = 10
         num2 = 20
         if num1 > num2:
             print('num1 is greater than num2')
         elif num2 > num1:
             print('num2 is greater than num1')
         else:
             print('num1 is less than num2')
         num2 is greater than num1
```

```
In [32]: # if- multiple elif - else
grade = 92

if grade >= 90:
    print("A grade")
elif grade >=80:
    print("B Grade")
elif grade >=60:
    print("c grade")
else:
    print("D Grade")
```

A grade

```
In [ ]: # Nested If else
    if condtion_outer:
        if condtion_inner:
            statement
        else:
            statement
    else:
        statement
```

```
In [35]: num1 = -1

if num1 != 0:
    if num1 > 0:
        print("positive number ")
    else:
        print("negative number")

else:
    print("number is neither positive nor negative")
```

negative number

```
In [39]: words = ["one","two","three"]
          for word in words:
              print(word)
          one
          two
          three
 In [ ]: # for(i=0;i<10;i++){</pre>
          # }
In [40]: range(10)
Out[40]: range(0, 10)
In [41]:
         for i in range(10): # range(start, stop, step) (0,10,1)
              print(i)
          1
          2
          3
          4
          5
          6
          7
          8
          9
In [42]: for i in range(0,10,1):
              print(i)
          0
          1
          2
          3
          4
          5
          6
          7
          8
          9
```

```
In [ ]: while
         while <condtion>:
              statement
         # 1- initilization is neccessary
         # 2- Add to incremental variable is again important
In [43]: count = 0
         while count < 10:</pre>
              print(count)
              count = count + 1
         0
          1
          2
          3
          4
          5
          6
          7
          8
         9
In [45]: a = 10
         while a < 20:
              print(a)
              a = a + 1
          10
         11
          12
          13
          14
          15
         16
          17
          18
          19
```

```
In [ ]: ## Exercise
       Q1 :
       Q2
       1 2 3
       1 2
            3
       1 2
       1
       Q3
```

```
In [1]: ## break

numbers = [10,20,30,40,50]

for num in numbers:
    if num > 30:
        break
    else:
        print(num)
```

 $Io calhost: 8888/notebooks/Python-Day8-Conditional_Flow_Statement.ipynb$

10 20 30

```
In [2]: i = 0
        while i < 10:
             if i > 5:
                 break
             else:
                 print(i)
             i = i + 1
        0
        1
        2
        3
        4
        5
In [4]: ## Continue
        for i in range(10):
             if i == 5:
                 print("Hey, reach the condition value")
                 print(i * i)
                 continue
             else:
                 print(i)
        0
        1
        2
        3
        Hey, reach the condition value
        25
        6
        7
        8
        9
In [5]: ## Pass
        for i in [10,20,30]:
             pass
In [ ]: num =10
        if num == 10:
             pass
```

```
In [ ]: def func():
    pass

In [ ]: class Human():
    pass
```