## **Today Topics**

- · Conditional statements
- Loops

## **Conditional statements**

- if statement
- else
- elif (if-else)
- · nested if

10

20 20 is Even

## Else statement

if condition:

- set of statements

else:

- set of statements

```
In [7]:
           1 n = int(input())
             if n\%2 == 0:
           2
           3
                  print(n,"is Even")
           4
             else:
                  print("NO")
           5
         25
         NO
         elif syntax
         if condition:
             - set of statements
         elif condition:
             - set of statements
         elif condition:
             - set of statements
```

- set of conditions

else:(optional)

```
In [20]:
           1 n = int(input())
           2 if n==1:
                 print("the no entered by the used is 1")
           3
             elif n==2: #or n ==4 or n==3:
           4
           5
                 print("the no entered by the used is 2")
           6
             elif n==3:
           7
                 print("the no entered by the used is 3")
             elif n==4:
           8
           9
                 print("the no entered by the used is 4")
          10
             elif n==5:
                 print("no is not in the conditionals")
          11
          12
```

10

```
#### nested if
1
 2
   if condition:
 3
 4
         - if condition:
 5
                 - if condition:
 6
                     -set of statements
 7
                 - else:
 8
                       - statements
9
         - else:
10
             - statements
11 else:
```

```
12
                  - statements
          13
In [22]:
           1 n = int(input())
           2
              if n ==10:
           3
                  n = n+1
                  if n == 11:
           4
           5
                      print(n)
           6
             else:
           7
                  print(n,"is no equal to 10")
         100
         100 is no equal to 10
In [25]:
             ### Find the biggest number out of 3 numbers
           2
           3 n1 = int(input()) # 15
           4 n2 = int(input()) # 8
           5 n3 = int(input()) # 20
              if n1 ==n2 and n1==n3:
           6
                  print("all the numbers are equal")
           7
           8
             else:
                  if n1>n2 and n1>n3:
           9
          10
                      print(n1, "is big")
                  elif n2>n1 and n2>n3:
          11
          12
                      print(n2, "is big")
          13
                  else:
                                            # elif n3>n1 and n3>n2:
          14
                      print(n3,"is big")
          15
         20
         10
         15
         20 is big
In [27]:
           1
             L = [1,2,3,4,5]
           2
             for I in L: #1,2,3,4
                  if I == 4:
           3
                      break
           4
           5
                  print(I)
           6
         1
         2
         3
```

```
In [37]:
             1 = [1,2,3,4,5]
             for i in 1: # 1,2,3,4,5
           2
                  #print(i, end = " ")
           3
           4
                  if i == 4:
           5
                      print("continue statment is exectued")
           6
                      continue
           7
                  print(i)
In [45]:
           1
             1 = [1,2,3,4,5]
              for i in 1: # 1,2,3,4,5
           2
           3
                  if i == 4:
                      print("pass statment is exectued")
           4
           5
           6
                  print(i)
                                          . . .
In [ ]:
           1 #for i in range(1,10)
           1 #### While loop
           2
             syntax:
           3
             while condition:
           4
                  - set condition
           5
                  - increment/decrement
           6
In [47]:
           1
             n = 2
           2
              while n<10:
           3
                  print(n)
           4
                  n+=1
           5
In [48]:
           1
             n = 2
             for i in range(n,10):
           2
           3
                  print(i)
```

. . .

```
In [1]:
         1 n = int(input()) # 4>5
          2 c= 0
            while n>0 and n>c:
          3
          4
                 name = input()
                age = int(input())
          5
          6
                 c=c+1
          7
                print(name)
                print(age)
          8
        3
        sri
        24
        sri
        24
        lalitha
        50
        lalitha
        50
        apssdc
        10
        apssdc
        10
        lalitha
        30
        lalitha
        30
In [ ]:
         1
```