```
In [ ]: 1.
         ->the for statement itterates through a collection or itterable object or generator
           the while statement simply loops until a condition is false
 In [5]:
             for i in range(10):
                  print(i)
                  i=i+1
         0
         1
         2
         3
         4
         5
         6
         7
         8
In [17]: 2.
         sum=0
         for i in range(11):
                sum=i+sum
                i=i+1
         print (sum)
         55
In [19]:
         sum=0
         i=10
         while i>0:
              sum=i+sum
              i=i-1
         print(sum)
         55
```

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assignment_3 about:srcdoc

```
In [1]: 3.
        units=int(input("enter your units: "))
        if units<=100:</pre>
             s=units*4.5
            print("your electricity bill is "+str(s) )
        elif units<=200 :</pre>
             s=(units-100)*6+100*4.5
             print("your electricity bill is "+str(s))
        elif units<=300 :</pre>
             s=(units-200)*10+100*6+100*4.5
             print("your electricity bill is "+str(s))
        else:
             s=(units-300)*20+100*10+100*6+100*4.5
            print("ypur electricity bill is "+str(s))
        ypur electricity bill is 2250.0
In [8]: | 1=[]
        for i in range (1,101):
            1.append(i)
             i=i+1
        print(1)
        11=[]
        for i in range (1, len(1)+1):
             11.append(i**3)
            i=i+1
        print(l1)
        12=[]
        for i in range (len(l1)):
             if l1[i]%4==0 and l1[i]%5==0:
                 12.append(l1[i])
                 i=i+1
        print(12)
```

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```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100]
[1, 8, 27, 64, 125, 216, 343, 512, 729, 1000, 1331, 1728, 2197, 2744, 3375, 4096, 4, 913, 5832, 6859, 8000, 9261, 10648, 12167, 13824, 15625, 17576, 19683, 21952, 2438, 9, 27000, 29791, 32768, 35937, 39304, 42875, 46656, 50653, 54872, 59319, 64000, 689, 21, 74088, 79507, 85184, 91125, 97336, 103823, 110592, 117649, 125000, 132651, 1406, 148877, 157464, 166375, 175616, 185193, 195112, 205379, 216000, 226981, 238328, 250047, 262144, 274625, 287496, 300763, 314432, 328509, 343000, 357911, 373248, 389, 917, 405224, 421875, 438976, 456533, 474552, 493039, 512000, 531441, 551368, 57178, 592704, 614125, 636056, 658503, 681472, 704969, 729000, 753571, 778688, 804357, 830584, 857375, 884736, 912673, 941192, 970299, 1000000]
[1000, 8000, 27000, 64000, 125000, 216000, 343000, 512000, 729000, 1000000]
```

```
In [25]: 5.

string="i want to become a data scientist"
    count=0
    for i in string:
        if i in "aeiou":
             count=count+1

print(count)
```

In []:

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