```
In [2]: \#strings
     #INDEXING
     #We will often want to pick out individual characters from a string.
     #Python uses square brackets to
     #SLICING
     #S[2:1
In [15]: string = "school"
      print(string[2:]) #this code will print values from index
      #position 2 to
      #the end
      #syntax for slicing is string name[start:stop:step]
      for i in string:#traverse through an array
          print(i,end="",sep="|")
      print()
      for i in range(len(string)):# when using the range()
          #and len() function
          print(string[i])
hool
school
S
С
h
0
0
1
In [25]: \#string\ methods
      #lower()
      #--->lower case
      s="KENYA"
      s = s.lower()
      print(s)
      #upper()
      #--->converts to uppercase
      s="kenya"
      s = s.upper()
      print(s)
      \#replace(x,y)
          #returns with every occurence of x replaced with y
      j=j.replace("a","e") #it reolaced every occurence of "a" with "e"
      print(j)
      #count()
      #counts the number of ocurrences of x in string
      print("the letter e occurs:",j.count("e"))
      #index()
      #returns the location of the occurence of x
      print("the letter is at index: ",j.index("k"))
      #isalpha()
```

```
#returns true if every character of the string is a lettter
      #tells if a character is a letter or not
      def letter checker():
          s=input("enter string:")
          for i in range(len(s)):
              if s[i].isalpha():
                  print(s[i])
              else:
                  print("The character {} is not a letter:".format(s[i]))
      letter checker()
kenya
KENYA
kenye
the letter e occurs: 2
the letter is at index: 0
enter string:anselmo123flavian
n
S
е
1
m
0
The character 1 is not a letter:
The character 2 is not a letter:
The character 3 is not a letter:
f
1
а
V
i
n
In [34]: #string concantenation
      def con():
          #use the plus operator to join the two strings
          s="hello"
          e="world"
          print(s+e)
      con()
helloworld
```

```
L=[1,2,3,4,5] #list initialisation
      #MAX...>prints the maximum value
      #min-->prints the minimum value
      #sum-->returns the sum of values in the list
      print(max(L)) #the largest value
      print(min(L)) #the smallest value
      print(sum(L)) #the sum of the list
      print(len(L)) #the length of the list
      #LIST METHODS
      \#append(x) \longrightarrow add a value at the end of the list
      #sort()-->sort the list
      #reverse() -->reverse the list
      #remove(x)-->removes the first occurrence of x
      #pop(p)--->removes the item at index p and returns its value
      #insert(index,item) -->inserts b at index a
5
1
15
In [80]: list=[1,2,3,4,5,6,7]
      def scan(list):
          for i in list:
              if(i%2!=0):
                   list.remove(i)
              else:
                print(list)
          print(list)
      scan(list)
[2, 4, 6]
In [1]: # list with EVEN and ODD number
     list = [11, 22, 33, 44, 55]
     def scan(list):
         for i in range(len(list)):
             if(list[i]%2 != 0):
                  list.pop(i)
         print (list)
     scan(list)
IndexError
                                            Traceback (most recent call last)
<ipython-input-1-bf87079ac7d2> in <module>
                    list.pop(i)
      7
            print (list)
---> 8 scan(list)
```

IndexError: pop index out of range

In []: