AssignmentPython6.1Loops List, If-else

Q1. WAP to input a string and print individual charachters in the string using loop

```
In [8]:
    st=input("enter a string: ")
    for i in st:
        print(i,end=" ")

enter a string: string
    s t r i n g
```

Q2. WAP to input a string and print the ASCII value of each charachter in the string

```
In [1]:
    st=input("enter a string: ")
    print("Ascii value of charecters")
    for i in st:
        print(i,"=",ord(i))

enter a string: strinG
    Ascii value of charecters
    s = 115
    t = 116
    r = 114
    i = 105
    n = 110
    G = 71
```

Q3. WAF that takes a list of numbers from user as argument and returs the sum of only odd numbers

```
In [14]:
    def odd_sum():
        n = int(input(" Please Enter number: "))
        sumo = 0
        for i in range(1, n+1):
            if(i % 2 != 0):
                 print("{}".format(i))
                 sumo= sumo + i
                 print("The Sum of Odd Numbers from 1 to {0} = {1}".format(n, sumo))
        odd_sum()

        Please Enter number: 5
        1
        3
        5
        The Sum of Odd Numbers from 1 to 5 = 9
```

Q4. WAP to input a list of numbers and store

in a tuple .now input another number and print the index of this number in the tuple

```
In [11]:
           s=input("enter element of list ")
           l=s.split()
            print("list",1)
           t=tuple(1)
            print("tuple",t)
            s=input("enter element of list ")
           t=tuple(s)
            print("tuple",t)
            print(t)
           enter element of list 1 2 3 4 5 6 7 8
          list ['1', '2', '3', '4', '5', '6', '7', '8'] tuple ('1', '2', '3', '4', '5', '6', '7', '8')
           enter element of list 9
           tuple ('9',)
           ('9',)
In [13]:
           print(t.index('9'))
```

Q5. Create a list of 10 random numbers and then print the list, sum of all numbers and average, use a for loop, also print elements at only even indexes in the list

```
In [6]:
    l=[2,4,5,9,8,3]
    print("list",1)
    suml=0
    for i in 1:
        suml=suml+i
        avg=suml//2
    print("Sum of all numbers",suml)
    print("average of all numbers",avg)
    ev_list = l[1::2]
    print("elements present at even index",ev_list)

list [2, 4, 5, 9, 8, 3]
    Sum of all numbers 31
    average of all numbers 15
    elements present at even index [4, 9, 3]
```

Q6. WAP to input 10 numbers repeatedly (using range base for loop)and stor them in a list .print the list and sum of numbers in list.

```
In [1]:
    lst=[]
    l=int(input("enter a number: "))
```

```
for i in range(0,1):
    ele=int(input())
    lst.append(ele)
print(lst)
suml=0
for i in range(0,len(lst)):
    suml= suml + lst[i]
print("Sum of list element is ", suml)
```

```
enter a number: 10
2
3
4
5
6
7
3
2
4
5
[2, 3, 4, 5, 6, 7, 3, 2, 4, 5]
Sum of list element is 41
```

Q7. WAP to input and print its table Ex. if user enters the number as 7, output should be

```
In [9]:
         n=int(input("enter a number : "))
         for i in range(1,11):
             s=n*i
             print(n,"*",i,"=",s)
        enter a number : 7
        7 * 1 = 7
        7 * 2 = 14
        7 * 3 = 21
        7 * 4 = 28
        7 * 5 = 35
        7 * 6 = 42
        7 * 7 = 49
        7 * 8 = 56
        7 * 9 = 63
        7 * 10 = 70
```

Q8. WAP to print total number of spaces in a string(use for loop to iterate over the string, dont use count function)

Q9. WAP to input a string and count number of vowels in the string

```
In [61]:
    st=input("enter a string: ")
    lo='aeiou'
    up='AEIOU'
    count=0
    for i in st:
        if (i in lo) or (i in up):
            count=count+1
    print("number of vowels count is: ",count)

enter a string: PratiKSHA
    number of vowels count is: 3
```

Q10. WAP to input a string and replace all vowels with ' '

```
In [50]:
    st = input("Enter The string: ").lower()
    vowels = ('a', 'e', 'i', 'o', 'u');
    for i in st:
        if i in vowels:
            newstr = st.replace(x,"_");
    print("New string after replacing:",newstr);

Enter The string: Pratiksha
    New string after replacing: pr_tiksh_
```

Q11. Find output

An exception has occurred, use %tb to see the full traceback.

SystemExit

C:\ProgramData\Anaconda3\lib\site-packages\IPython\core\interactiveshell.py:3445: Us
erWarning: To exit: use 'exit', 'quit', or Ctrl-D.
warn("To exit: use 'exit', 'quit', or Ctrl-D.", stacklevel=1)

Q12.find the output of following code

```
In [14]:
          for il in range (1,6):
              for i2 in range(5):
                   print("*",end="")
              print()
          for il in range(1,6):
              print(str(il)*il)
                                                    Traceback (most recent call last)
          <ipython-input-14-b0f1cda469ab> in <module>
               4 print()
               5 for il in range(1,6):
          ----> 6 print(str(il)*il)
          TypeError: 'str' object is not callable
In [15]:
          for i1 in range (1,6):
              for i2 in range (i1):
                   print(i1,end="")
              print()
          for i1 in range(1,6):
              for i2 in range (i1+1):
                  print("*",end="")
              print()
         1
         22
          333
         4444
          55555
          ***
          *****
```

Q13 Generate alist of 10 number(10 - 50) and print the list and sun of all elements . Now take the list and remove the five largest elements from the list and print the list and its sum again

```
In [37]: l=list(range(10,51))
    l.sort()
    print("List generates",1)
    print("-----")
    suml=0
    for i in 1:
        suml=suml+i
    print("sum of list elements is =",suml)

    print("-----")
    rr=1[-5:]
```