**#1. Create a list containing several strings. Take input from the #user (search string); display #whether entered string is available in the list or not.**

# lst = [‘Jeet',’Milan','Vishal','Kushal']

# search=input('Enter a value to search from the list')

# if search in lst:

# print('The search value present in list ',lst)

# else:

# print('The search value is not available in list ')

**#2. Accept the string from the user; display the message whether #the entered string is #palindrome or not.**

# str=input('Enter a string ')

# str1=str[-1::-1]

# if str1 == str:

# print('string is palindrome')

# else:

# print('The string not palindrome')

**#3. Accept the string from the user; display the string in the #reverse order.**

# str=input('Enter any string value : ')

# print('The value of the string is : ',str)

# str1=str[-1::-1]

# print('The value of the reversed string is : ',str1)

**#4. Accept the string from the user; allow user to choose from the #following options and perform**

**#the task as per user’s choice. i). Convert to the upper case,**

**#ii). Convert to the lower case, iii).Convert to the swap case,**

**#iv). Convert to the title case**

# str=input('Enter a string value : ')

# print('Press 1 to convert string to uppercase')

# print('Press 2 to convert string to lowercase')

# print('Press 3 to convert string to swapcase')

# print('Press 4 to convert string to titlecase')

# num=int(input('Enter value here : '))

# if num==1:

# print(str.upper())

# elif num==2:

# print(str.lower())

# elif num==3:

# print(str.swapcase())

# elif num==4:

# print(str.title())

# else:

# print('invalid input')

**#5. Allow users to enter multiple strings in the list; arrange the #entered string into alphabetical #order and display.**

# lst=[]

# Nolst=int(input('Enter number of string you want to enter : '))

# for i in range(Nolst):

# lst.append(input('Enter the value of string : '))

# print(lst)

# print(sorted(lst))

**#6. Create a tuple and display it. Enter 25 at the third position #and display it again**

# tpl=(1,2,34)

# print(tpl)

# l=list(tpl)

# l[2]=25

# tpl=tuple(l)

# print(tpl)

**#7. Create a dictionary named library with following keys (Bookid, #Title, Author, Price, Publisher).**

# library={'BookId':24,'Title':'Rich Dad and Poor Dad','Author':'Robert Kiyosaki','Price':2000,'Publisher':'Warner Books'}

**# a) Display the dictionary**

# print(library)

**# b) Display the name of Author**

# print('The name of the author is : ',library['Author'])

**# c)Display the Bookid**

# print('The book id is : ',library['BookId'])

**# d) Display the length of the dictionary**

# print('The length of the dictionary is : ',len(library))

**# e) Update the price**

# library['Price']=4900

# print('The renewed price is : ',library['Price'])

**# f) Insert year as the new key and display the dictionary again.**

# library['Year']=2001

# print('The updated library is : ',library)

**#8. Create a numeric array and perform following operations on it:**

# from numpy import \*

**# 1) Add 2 to each elements**

# ar=array([34,56,67,3,33,4])

# print(ar)

# nar=[i+2 for i in ar]

# print('After Addition with 2 : ',nar)

**# 2)Subtract 3 from each element**

# from numpy import \*

# ar=array([34,56,67,3,33,4])

# print(ar)

# nar=[i-3 for i in ar]

# print('After subraction with 3 : ',nar)

**# 3) Multiply each element with 3**

# from numpy import \*

# ar=array([34,56,67,3,33,4])

# print(ar)

# nar=[i\*3 for i in ar]

# print('After multiplication with 3 : ',nar)

**# 4)Divide each element by 2**

# from numpy import \*

# ar=array([34,56,67,3,33,4])

# print(ar)

# nar=[i/2 for i in ar]

# print('After division with 2 : ',nar)

**# 5) max and min**

# from numpy import \*

# ar=array([34,56,67,3,33,4])

# print(ar)

# print('The maximum element from the array is : ',max(ar))

# print('The minimum element from the array is : ',min(ar))

**# 6) find the average of all elements.**

# from numpy import \*

# ar=array([34,56,67,3,33,4])

# print(ar)

# print('The average of the array is : ',average(ar))

**#9. Create a numeric array and do the following: append the element, #pop the element, insert an element at the desired postion, reverse #the elements in the array, convert the array to list.**

# from array import \*

# ar=array('i',[4,56,98,4,5,77,32])

# print(ar)

**# # append the element**

# ar.append(4)

# print('After appending the element : ',ar)

**# # pop the element**

# ar.pop(1)

# print('After removing the element : ',ar)

**# # insert an element at the desired postion**

# ar.insert(2,23)

# print('After inserting the elemtnt : ',ar)

**# # reverse the elements in the array**

# ar.reverse()

# print('After reversing the array : ',ar)

**# # convert the array to list**

# lst = list(ar)

# print('Converted into the list : ',lst)

**#10. Accept numeric elements from the user, store it to the array #and display. Ask user to enter #search element. Display the position of the searched element.**

# from array import\*

# ar=array('i',[])

# no=int(input('Enter number of elements you want to enter'))

# for i in range(no):

# ar.append(int(input('Enter any value : ')))

# x=int(input('Enter value to search in element : '))

# for i in range(no):

# if ar[i]==x:

# print('The element is present in the array at position : ',i,'And the value is : ',ar[i])

**#11. Take two arrays enter 5 digits in both arrays. Compare the #corresponding element from each #array and display only the bigger number.**

# from numpy import \*

# ar1=array([2,45,634,4,5])

# ar2=array([23,2,33,12,39])

# print(fmax(ar1,ar2))

**#12. Accept dimension of the array and its values from the user, #create an array as desired.**

# from numpy import \*

# no=int(input('Enter number of dimensional array you want to create : '))

**#13. Create a function to calculate the simple interest.**

# def simpleInterest(p,r,n):

# si=(p\*r\*n)/100

# return si

# print('The simple interest of the given data is : ',simpleInterest(1000,5,1))

**#14. Create a function to perform basic arithmetic operations on the #number.**

# def arithmatic(a,b):

# print('Addition is : ',a+b)

# print('Subtraction is : ',a-b)

# print('Multiplication is : ',a\*b)

# print('Division is : ',a/b)

# arithmatic(10,5)

**#15. Accept multiple strings and store it into the list using #function.**

# def lste(no):

# lst=[]

# for i in range(no):

# lst.append(input('Enter value of string : '))

# print(lst)

# no=int(input('Enter number of strings you want to insert : '))

# lste(no)

**#16. Find the biggest number from three values using lambda.**

# big= lambda a,b,c:max(a,b,c)

# print(big(9,4,5))

**#17. Demonstrate the use of: and i). break ii). pass.**

# n=5

# for i in range(n):

# if i==3:

# break # this will break the loop when the conditon is true

# else:

# print(i)

**# #ii). pass**

# n=5

# for i in range(n):

# if i==3:

# pass # this will pass the current element from the loop

# else:

# print(i)