DATA SCIENCE LAB

EXERCISE 1- Introduction to NumPY

1. Write a NumPy program to convert Fahrenheit degree to centigrade degree. Fahrenheit values are stored in a NumPy array.

2. Write a NumPy program to create a random array with 1000 elements and compute the average, variance, standard deviation of the array elements.

3. Write a NumPy program to convert angles from degrees to radians for all elements in a given array.

4. Write a NumPy program to calculate the difference between neighbouring elements, element-wise of a given array.

5. Write a NumPy program to sort a given complex array using the real part first, then the imaginary part.

6. Write a NumPy program to create a 1D array with random numbers and print the values greater than 4.

7. Write a NumPy program to create a 1D array with random numbers and search a particular number given by the user.

8. Write a NumPy program to save a given array to a text file and load it.

9.Write a NumPy program to create an array of all the even integers from 30 to 60.

10. Write a NumPy program to compute sum of all elements ,sum of each column and sum of each row of a given array.