**Assignment - 1**

1. Create the following vectors in R.

a = (5, 10, 15, 20, ..., 160)

b = (87, 86, 85, ..., 56)

Use vector arithmetic to multiply these vectors and call the result in d. Select subsets of d to identify the following.

(a) What are the 19th, 20th, and 21st elements of d?

(b) What are all of the elements of d which are less than 2000?

(c) How many elements of d are greater than 6000?

2. Generate a vector with some of your friend's names. Get the length of vector and access the 2nd and 8th friend’s names from the above vector.

3. A create a matrix by taking a given vector of numbers as input and define the column and row names. Then Display the matrix.

4. Using R program, extract the elements whose value is greater than 6 from a matrix created in Question 3.

5.  Create a list containing a strings, logical values, vector, a matrix and a list and give names to the elements in the list.

6.  Remove the second element in the list created in Question 5.

7. Create an array using five given columns, three given rows, and two given tables and display the content of the array.