**Exercise – Data Type**

1. Create two numeric values with name num1 and num2; assign values as 20.752 and 25.625 respectively.

2. Create a character value with name company and assign value as “ABCDEF GHIJKLMN”; convert first letter of both words into upper case and rest should be lower case.

3. Find addition of num1 and num2 of question1, and store result of addition into a new variable as integer.

4. Create two complex values with name com1 and com2, and assign values as 5-4i and 5+4i. Find the product of com1 and com2. Can we store result of product as integer?

5. Which function is used to find type of a variable? Can we add two different type of variables like numeric and complex, give some examples.

**Exercise – List**

1. Create a list which include 4 elements in it, 1st element is vector with values 1 to 10, 2nd element is vector with two values “Yes” and “No”, 3rd element is vector of logical value TRUE and FALSE, 4th element is vector of 5 numeric values (1,1,1,2,2,2).

2. Create a list which include 9 elements each elements have prime factor of 2 to 10.

3. Create a list with element name “A”,”B”,”C”. A has value from 100 to 200, B has value as letters a, b ,c and C has value as matrix of 10 values from 1 to 10 with 2 column.

4. Create a list with name “IndianMovies” with two elements – first element is vector movies.name and have three values (take some movies name of your own choice), second element is vector Revenue and have three values like 2.3,4.5,5,6.