**Module – 2 ASSIGNMENT**

**Data Types**

**Please implement by using Python.**

1. Construct 2 lists containing all the available data types (integer, float, string, complex and Boolean) and do the following.
   1. Create another list by concatenating the above 2 lists.
   2. Find the frequency of each element in the concatenated list.
   3. Print the list in reverse order.
2. Create 2 Sets containing integers (numbers from 1 to 10 in one set and 5 to 15 in another set)
   1. Find the common elements in the above 2 Sets.
   2. Find the elements that are not common.
   3. Remove element 7 from both Sets.
3. Create a data dictionary of 5 states having state name as key and number of covid-19 cases as values.
   1. Print only state names from the dictionary.
   2. Update another country and its covid-19 cases in the dictionary.

**Operators**

**Please implement by using Python**

1. A. Write an equation that relates 399, 543, and 12345.

B. “When I divide 5 by 3, I got 1. But when I divide -5 by 3, I got -2”—How would you justify it?

2. a=5, b=3, c=10. What will be the output of the following:

A. a/=b

B. c\*=5

3. A. How to check the presence of an alphabet ‘s’ in the word “Data Science”.

B. How can you obtain 64 by using numbers 4 and 3.

**Variables**

**Please implement by using Python**

1. What will be the output of the following (can/cannot):
2. Age1=5
3. 5age=55
4. What will be the output of the following (can/cannot):
5. Age\_1=100
6. age@1=100
7. How can you delete variables in Python?