Hashtables – Tables of Numbers (Project 1)

**Lab Description :** Write a hash table program. A hash table can be implemented using an array of linked lists. Use an array of Java LinkedLists.

Use int values to construct Number objects. Organize the Number objects in the proper bucket using the hashCode of each Number. There should be no duplicates in this hash table.

**Sample Data :**

30

34

**Files Needed ::**

**Number.java**

**NumberTester.java**

**HashTable.java**

**HashTableRunner.java**

**numbers.dat**

56

78

09

12

23

43

45

78

98

76

65

54

43

21

1

2

3

4

5

6

7

8

9

11

10

1

2

3

4

**Sample Output :**

HASHTABLE

bucket 0 - 10

bucket 1 - 21 1 11

bucket 2 - 12 2

bucket 3 - 23 43 3

bucket 4 - 34 54 4

bucket 5 - 45 65 5

bucket 6 - 56 76 6

bucket 7 - 7

bucket 8 - 78 98 8

bucket 9 - 9