



```
Enter a list of numbers:
23
567
12
89
324
Enter the number to be searched:12
Number 12 is present at 3 position
```

4.6 INTRODUCTION TO DICTIONARIES

The data type *dictionary* falls under mapping. It is a mapping between a *set of keys* and a *set of values*. The key-value pair is called an *item*. A key is separated from its value by a colon(:) and consecutive items are separated by commas. Items in dictionaries are unordered, so we may not get back the data in the same order in which we had entered the data initially in the dictionary.

4.6.1 Creating a Dictionary

To create a dictionary, the items entered are separated by commas and enclosed in curly braces. Each item is a key value pair, separated through colon (:). The keys in the dictionary must be unique and should be of any immutable data type i.e. number, string or tuple. The values can be repeated and can be of any data type.

Example 4.2

```
#dict1 is an empty dictionary
>>> dict1 = {}
>>> dict1
{}
#dict3 is the dictionary that maps names of
#the students to marks in percentage
>>> dict3 = {'Mohan':95, 'Ram':89, 'Suhel':92,
'Sangeeta':85}
>>> dict3
{'Mohan': 95, 'Ram': 89, 'Suhel': 92,
'Sangeeta': 85}
```

4.6.2 Accessing Items in a Dictionary

We have already seen that the items of a sequence (string, list and tuple) are accessed using a technique called indexing. The items of a dictionary are accessed via the keys rather than via their relative positions or indices. Each key serves as the index and maps to a value.

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