Module 11 — Lists: Selftests

- 1. To make a list, we use the key-word list. Make a list of all the letters in "Ahmedabad".
- 2. To sort a list, we can use either the method sort or the function Sorted. Create a list of letters in "Ahmedabad" that is sorted.
- 3. For each letter in the word "Ahmedabad", print out the letter followed by "j", followed by the letter.
- 4. There are many tricks in order to remove duplicate elements in a list. One common way is to use the Python-set, but we do not know that yet. Here, we write a function that uses the "in" predicate. This predicate checks whether an object is in a list. We write a function remove_duplicates with one parameter lista, denoting a list. Inside the function, we create a new list that is initially empty. We then go through all elements in the list, using a for loop. For each element, we ask whether it is already in the new list. If it isn't, then we append to it. Write the code.

Solutions

```
(1)
          list("Ahmedabad")
          lista = list("Ahmedabad")
(2)
          lista.sort()
          print(lista)
(2)
          lista = sorted(list("Ahmedabad"))
          print(lista)
(3)
          for letter in sorted(list("Ahmedabad")):
                print(letter + "j" + letter)
          def remove duplicates(lista):
(4)
                new lista = []
                for element in lista:
                      if element not in new lista:
                           new lista.append(element)
                return new_lista
```