Multiple Choice Questions

1. How will you extract 'love' from the string S = "I love Python"? (More than one option may be correct.).
    a. S[2:5]
    b. ✓ S[2:6]
    c. S[3:7]
    d. ✓ S[-11:-7]
    e. S[-11:-8]
2. What will the output of 3 * 3 ** 3 be?
    a. 9
    b. 27
    c. ✓ 81
    d. 729
3. What will the output be of ((500//7) % 5) ** 3?
    a. ✓ 1
    b. 2.91
    c. 71.42
    d. 0
    e. 8
4. If you have a tuple T = (3, 5, 7, 11), what will the output of T.append(9) be?
    a. (3, 5, 7, 9, 11)
    b. (9, 3, 5, 7, 11)
    c. (3, 5, 7, 11, 9)
    d. ✓ Error
5. What will the output of the following program be?
    a. Vikas
    b. Mahima
    c. y
    d. A

6. What will the output of the following code be?

```
l = [32, 34, 12, 27, 33]
l.append((14, 19))
print(len(l))
```

   a. 5
   b. 6 ✓
   c. 7
   d. The code will throw an error

7. Which of the following statements is incorrect regarding sets in Python?
   a. Sets do not contain duplicate elements
   b. Sets are represented using curly braces {}
   c. Sets are immutable ✓
   d. All of the above

8. What will the output be of the following code?

```
D = {1:['Raj', 22], 2:['Simran', 21], 3:['Rahul', 40]}
for val in D:
    print(val)
```

   a. 1 ✓
      2
      3
   b. [‘Raj’, 22]
      [‘Simran’, 21]
      [‘Rahul’, 40]
   c. 1 [‘Raj’, 22]
      2 [‘Simran’, 21]
      3 [‘Rahul’, 40]
   d. ‘Raj’
      ‘Simran’
      ‘Rahul’

9. What will the ‘comprehension equivalent’ be for the following snippet of code?

```
for sentence in paragraph:
    for word in sentence.split():
        single_word_list.append(word)
```

   a. word for sentence in paragraph for word in sentence.split()
   b. [word for sentence in paragraph for word in sentence.split()]
   c. word for word in sentence.split() for sentence in paragraph
   d. [word for word in sentence.split() for sentence in paragraph] ✓

10. What will be the output of this code?

```
print(list(range(10, 0, 1, -1)))
```

   a. [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
   b. [9, 8, 7, 6, 5, 4, 3, 2]
   c. [9, 8, 7, 6, 5, 4, 3, 2, 1]
   d. [10, 9, 8, 7, 6, 5, 4, 3, 2] ✓