

## DSA Week 1 activities

This week, you are required to complete two questionnaires and one lab.

- a. In your DSA textbook 1, answer questions 1 to 6.
- b. In this print out, answer all week 1 questions.
- c. Also, in this print out, complete lab one activity using the lab computers.

**Note:** You can complete the activities in any order, however, make afford to finish and understand everything which prepares you for well for test 1, test 2, Major Assignment, Mid Semester Exam & Final Exam.

## DSA Week 1 Questions

1. In many data structures you can **insert** a single record, **search for** it, and **delete** it.
2. Rearranging the contents of a data structure into a certain order is called **sorting**.
3. In a database, a field is
  - a. a specific data item.
  - b. a specific object.
  - c. **part of a record.**
  - d. part of an algorithm.
4. The field used when searching for a particular record is the **search key**.
5. In object-oriented programming, an object
  - a. is a class.
  - b. **may contain data and methods.**
  - c. is a program.
  - d. may contain classes.
6. A class
  - a. **is a blueprint for many objects.**
  - b. represents a specific real-world object.
  - c. will hold specific values in its fields.
  - d. specifies the type of a method.
7. In Java, a class specification
  - a. creates objects.
  - b. requires the keyword new.
  - c. creates references.
  - d. **none of the above.**
8. When an object wants to do something, it uses a **method**.
9. In Java, accessing an object's methods requires the **dot** operator.
10. In Java, boolean and byte are **data types or base types or primitive types**.

## DSA textbook 1, answer questions 1 to 6.

1. a
2. b
3. d
4. **method**
5. **dot**
6. **data types or base types or primitive types.**