



Course: JAVA (2)

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Tutorial: Sheet 3

Part A – True or False:

1. `Object` class is the parent class of all classes in Java. (___)
2. Wrapper classes are used to convert primitive data types into objects. (___)
3. The `equals()` method in the `Object` class compares object references by default. (___)
4. Every class in Java directly or indirectly inherits from the `Object` class. (___)
5. `ArrayList` can store primitive data types directly without using wrapper classes. (___)
6. The `List` interface allows duplicate elements in Java. (___)
7. The size of an `ArrayList` is fixed after initialization. (___)
8. The `toString()` method is inherited from the `Object` class. (___)
9. `LocalDateTime` belongs to the `java.util` package. (___)
10. You cannot use a `for-each` loop to iterate through an `ArrayList`. (___)

Part B – Multiple Choice Questions

1. Which of the following is the superclass of all Java classes?
a) `String` b) `Object` c) `Class` d) `Main`
2. Which method of the `Object` class is used for comparing two objects?
a) `compareTo()` b) `equals()` c) `compare()` d) `same()`



3. What is the wrapper class for the primitive type `int`?
 - a) Integer
 - b) Int
 - c) Number
 - d) Float
4. Which process automatically converts a primitive type into its wrapper object?
 - a) Casting
 - b) Autoboxing
 - c) Unboxing
 - d) Wrapping
5. The `ArrayList` class implements which interface?
 - a) Set
 - b) Queue
 - c) List
 - d) Collection
6. Which package contains Java's modern date and time classes?
 - a) java.date
 - b) java.util
 - c) java.time
 - d) java.datetime
7. Which method returns the number of elements in an `ArrayList`?
 - a) size()
 - b) length()
 - c) count()
 - d) getSize()
8. Enums in Java are:
 - a) Classes that can have only constants
 - b) Variables
 - c) Packages
 - d) Interfaces
9. Which of the following correctly declares an enum?
 - a) enum Days {MON, TUE, WED}
 - b) enum = Days {MON, TUE, WED}
 - c) Days enum {MON, TUE, WED}
 - d) enum Days = {MON, TUE, WED}
10. The `List` interface allows:
 - a) Only unique elements
 - b) Ordered elements with duplicates
 - c) Unordered elements
 - d) Only primitive data types



Part C: Programming Tasks

1. Program 3 – Date and Time:

Write a program using `LocalDate`, `LocalTime`, and `LocalDateTime` to print the current date, time, and both together in a formatted way.

2. Program 4 – Enum Example:

Define an `enum` called `Day` with days of the week and use a `switch` statement to display a message for each day.

3. Program 5 – ArrayList and List Interface:

Create a `List<String>` of student names using `ArrayList`, add several names, remove one, and display all names using a `for-each` loop.