

**Deccan Education Society's
Fergusson College (Autonomous), Pune
Department of Mathematics
M.Sc. (IMCA)**

Second Year – Semester V

MTS621 Core Java

Assignment 6

Wrapper Class , Inner classes and Anonymous classes

1. Define a method named demonstrateWrapperClasses that performs the following operations:
(Use appropriate static methods)
 - a. Declare and initialize variables of primitive types (int, double, char, boolean).
 - b. Convert these primitives to their corresponding wrapper classes (Integer, Double, Character, Boolean).
 - c. Display the values of these wrapper objects.
 - d. Convert these wrapper objects back to their primitive types and display the results.
2. Define a static method named performWrapperOperations that:
 - a. Initializes an Integer, a Double, and a Character with some values.
 - b. Convert these wrapper objects to their primitive types and perform the following operations:
 1. Add two Integer values.
 2. Subtract two Double values.
 - c. Convert the results back to wrapper objects and display them.
3. Inner class -
 - a. OuterClass with a private instance variable message of type String.
 - b. Initialize the message variable directly in the outer class.
 - c. Define a inner class InnerClass within OuterClass that has a method displayMessage() which prints the message from the outer class.
 - d. Inner Class Usage:
In the main method of OuterClass, create an instance of OuterClass, and then create an instance of InnerClass using the outer class instance.
 - e. displayMessage() method should print the message.
4. Create a Java class named AnonymousClassDemo that demonstrates the use of an anonymous class. The class should include:
 - a. In the main method of AnonymousClassDemo,
 - b. Define anonymous class and the method – sayHello () which prints the string in Anonymous class.