

	EXERCISES	Mapped CO
1	a. Java Program to print largest of three numbers b. Java program to calculate sum of all the numbers divisible by 3 from 1 to n. Print the sum. c. Write a Java program to calculate the sum of first "n" even integer numbers and "n" odd integer numbers excluding 0; d. Write a Java program to read the size of an array from keyboard. You have to initialize the integer array and insert the elements into it. You have to find the minimum number in that array and print the same. e. Write a Java program to find the average of all odd numbers present in the array and print the same.	CO1-CO4
2	Implement the programs by using the concepts of a. returning value from a method, b. constructors c. overloading methods, d. overloading constructors e. passing objects as a parameters.	CO1-CO4
3	Develop applications using the concepts of a. String class and its methods b. String Buffer and its methods c. String Tokenizer and its methods	CO1-CO4
4	Implement the programs by using the concepts of a. Method overriding, b. dynamic method dispatch c. Abstract class, d. Using final in inheritance	CO1-CO4
5	Implement the programs by using the concepts of a. Implementing interfaces, b. Nested interfaces c. Interface references, d. Extending interfaces	CO1-CO4
6	A. Create a user defined package and demonstrate different ways of importing packages. B. Implement the programs by using the concepts of a. multiple catch clauses, b. finally c. Creating user defined exceptions	CO1-CO4
7	Implement the programs using a. Creating threads (two –ways), b. Creation of multiple threads c. Thread synchronization	CO1-CO4
8	Develop applications that demonstrate by using a. Key board event handling, b. Mouse event handling	CO1-CO4
9	Develop applications by using AWT controls a. Buttons b. TextField and TextArea c. GridLayoutManager	CO1-CO4
10	Develop applications by using Swing components a. JLabel b. JTextField c. JButton d. JComboBox.	CO1-CO4

Learning Resources

Text Books

The Java Complete Reference, Herbert Scheldt, 10/e, TMH Publications, 2018.

References

1. E. Balagurusamy, *Programming with JAVA*, 6/e, TMH Publications, 2014.
2. *Core Java: An Integrated Approach*, New: Includes All Versions up-to Java 8, by R. Nageswara Rao, Dream-Tech Publishers.
3. Kathy Sierra, *Head First Java*, 3/e, O'Reilly Media, 2021.

E-Recourses and other Digital Material

1. https://www.w3schools.com/java/java_intro.asp
2. <https://www.tutorialspoint.com/java/index.htm>