Govt. of Karnataka, Department of Technical Education
Diploma in Information Science & Engineering

Fifth Semester

Subject: Programming with Java Lab

Contact Hrs / week: 6   **Total hrs: 96**

1	Write a Java Program to define a class, describe its constructor, overload the Constructors and instantiate its object
2	Write a Java Program to define a class, define instance methods for setting and Retrieving values of instance variables and instantiate its object.
3	Write a Java Program to define a class, define instance methods and overload them and use them for dynamic method invocation.
4	Write a Java Program to demonstrate use of sub class
5	Write a Java Program to demonstrate use of nested class.
6	Write a Java Program to implement array of objects.

7	Write a Java program to practice
	    - using String class and its methods.
	    - using String Buffer class and its methods.

8	Write a Java Program to implement Vector class and its methods.
9	Write a Java Program to implement Wrapper classes and their methods.
10	Write a Java Program to implement inheritance and demonstrate use of method overriding.
11	Write a Java Program to implement multilevel inheritance by applying various access controls to its data members and methods.
12	Write a program to demonstrate - use of implementing interfaces. - use of extending interfaces.
13	Write a Java program to implement the concept of importing classes from user defined package and creating packages.
14	Write a program to implement the concept of threading.

	-by extending Thread Class	
	-by implementing Runnable Interface	
15	Write a program to implement the concept of Exception Handling - using predefined exception. - by creating user defined exceptions.	
16	Write a program using Applet - to display a message in the Applet. - For configuring Applets by passing parameters.	
17	Write a Java Program to demonstrate -Keyboard event Mouse events	
18	Write programs for using Graphics class - to display basic shapes and fill them. - draw different items using basic shapes - set background and foreground colors.	

Text:

1. Computer Programming in Java, Junaid Khateeb and Dr. G.T. Thampi, Wiley Dreamtech, ISBN: 9788177228298

2. Programming with Java, 4th edition, Balagurusamy, Mc Graw Hill, ISBN-9780070141698

Scheme of Valuation

1	Record	05
2	Writing two programs (2x15)	30
3	Executing one program	40
4	Result	05
5	Viva Voce	20
	Total	100