

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LESSON PLAN

Class : II B.Tech I Sem

Branch: CSE- II Shift

Course : Object Oriented Programming Practicals

Course Code:14CSU12P02

No. of Periods/week: 3

Academic Period: 2016-17

No. of periods: 39

Name of the Faculty: Komala A

S. No	Details of Lab Exercise	Date	Cumulative Hours
1	Exploring Java through Internet(Assignment)	11/7/16	3
2	Developing Java Application, Simple programs on Arrays, Strings, Control Structures	18/7/16	6
3	<p>1. a) Write a Java program that prints all real and imaginary solutions to the quadratic equation $ax^2 + bx + c = 0$. Read in a, b, c and use the quadratic formula.</p> <p>b) Write a Java program that find prime numbers between 1 to n.</p> <p>c) Write a Java Program that find the factorial of a number</p> <p>2. a) Write a java program that print the fibonacci series up to a given number.</p> <p>b) Write a Java program that checks whether a given string is a palindrome or not. Ex: MADAM is a Palindrome.</p> <p>c) Write a Java program for sorting a given list of names in ascending order.</p> <p>d) Write a Java program to make frequency count of vowels, consonants, special symbols, digits, words in a given text</p>	25/7/16	9
4	<p>6. a) Write java program to create a super class called Figure that receives the dimensions of two dimensional objects. It also defines a method called area that computes the area of an object. The program derives two subclasses from Figure. The first is Rectangle and second is Triangle. Each of the sub class overridden area() so that it returns the area of a rectangle and a triangle respectively.</p> <p>5. a) Write a java program to make rolling a pair of dice 10,000 times and counts the number of times doubles of are rolled for each different pair of doubles. <i>Hint: Math.random()</i></p> <p>b)Write a java program that inputs 5 numbers, each between 10 and 100 inclusive. As each number is read display it only if it's not a duplicate of any number already read display the complete set of unique values input after the user enters each new value.</p> <p>c)Write a java program to read the time intervals (HH:MM) and to compare system time if the system time between your time intervals print correct time and exit else try again to repute the same thing. By using StringTokenizer class.</p>	1/8/16	12
5	<p>3. a) Write a java program to split a given text file into n parts. Name each part as the name of the original file followed by .part<n> where n is the sequence number of the part file</p> <p>b) Write a java program to convert an ArrayList to an Array.</p> <p>c) Write a java program to find and replace pattern in given file</p> <p>4. a) Write a Java program that reads a file name from the user, then displays information about whether the file exists, whether the file is readable, whether the file is writable, the type of file and the length of the file in bytes.</p> <p>b) Write a Java program that reads a file and displays the file on the screen, with a line number before each line.</p> <p>c) Write a Java program that displays the number of characters, lines and words in a text file.</p>	8/8/16	15
6	<p>6) b) Write a Java program that creates three threads. First thread displays —Good Morning! every one second, the second thread displays —Hello! every two seconds and the third thread displays —Welcome! every three seconds</p> <p>7. a) Write a Java program that correctly implements producer</p>	22/8/16	18

	<p>consumer problem using the concept of inter thread communication.</p> <p>b) Use inheritance to create an exception super class called EexceptionA and exception sub class ExceptionB and ExceptionC, where ExceptionB inherits from ExceptionA and ExceptionC inherits from ExceptionB. Write a java program to demonstrate that the catch block for type ExceptionA catches exception of type ExceptionB and ExceptionC</p>		
7	<p>8. a) Develop an applet that displays a simple message.</p> <p>b) Develop an applet that receives an integer in one text field, and computes its factorial value and returns it in another text field, when the button named —Compute is clicked</p>	19/9/16	21
8	9. Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -, *, % operations. Add a text field to display the result	26/9/16	24
9	10. Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the JtextFields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a NumberFormatException. If Num2 were Zero, the program would throw an ArithmeticException Display the exception in a message dialog box.	3/10/16	27
10	11. Write a Java program that implements a simple client/server application. The client sends data to a server. The server receives the data, uses it to produce a result, and then sends the result back to the client. The client displays the result on the console. For ex: The data sent from the client is the radius of a circle, and the result produced by the server is the area of the circle. (Use java.net)	10/10/16	30
11	Pending Exercises	17/10/16	33
12	12. Write a java program establish a JDBC connection, create a table student with properties name, register number, mark1, mark2, mark3. Insert the values into the table by using the java and display the information of the students at front end.	24/10/16	36
13	Model Exam	31/10/16	39

Signature of Faculty Member

Signature of HoD