Third Year B.C.A. (Science) Semester V

(To be implemented from Academic year 2017-18)

Course Code: BCA-505 Course Title: LAB I (Core Java)

Total Contact Hours: 48 hrs. Total Credits: 04

Total Marks: 100

Note that these are only sample assignments. Teachers may conduct practicals by preparing similar types of examples

Java Sample Programs

1. Java Program to Print an Integer (Entered by the User) 2. Java Program to Add Two Integers
3. Java Program to Multiply two Floating Point Numbers
4. Java Program to Find ASCII Value of a character
5. Java Program to Compute Quotient and Remainder
6. Java Program to Swap Two Numbers
7. Java Program to Check Whether a Number is Even or Odd
8. Java Program to Check Whether an Alphabet is Vowel or Consonant
9. Java Program to Find the Largest Among Three Numbers
10. Java Program to Find all Roots of a Quadratic Equation
11. Java Program to Check Leap Year
12. Java Program to Check Whether a Number is Positive or Negative
13. Java Program to Check Whether a Character is Alphabet or Not
14. Java Program to Calculate the Sum of Natural Numbers
15. Java Program to Find Factorial of a Number
16. Java Program to Generate Multiplication Table
17. Java Program to Display Fibonacci Series
18. Java Program to Find GCD of two Numbers
19. Java Program to Find LCM of two Numbers

20. Java Program to Display Characters from A to Z using loop
21. Java Program to Count Number of Digits in an Integer
22. Java Program to Reverse a Number
23. Java Program to Calculate the Power of a Number
24. Java Program to Check Whether a Number is Palindrome or Not
25. Java Program to Check Whether a Number is Prime or Not
26. Java Program to Display Prime Numbers Between Two Intervals
27. Java Program to Check Armstrong Number
28. Java Program to Display Armstrong Number Between Two Intervals
29. Java Program to Display Prime Numbers Between Intervals Using Function
30. Java Program to Display Armstrong Numbers Between Intervals Using Function
31. Java Program to Display Factors of a Number
32. Java Program to Make a Simple Calculator Using switch...case
33. Java Program to Check Whether a Number can be Expressed as Sum of Two Prime Numbers
34. Java Program to Find the Sum of Natural Numbers using Recursion
35. Java Program to Find Factorial of a Number Using Recursion
36. Java Program to Find G.C.D Using Recursion
37. Java Program to Convert Binary Number to Decimal and vice-versa
38. Java Program to Convert Octal Number to Decimal and vice-versa
39. Java Program to Convert Binary Number to Octal and vice-versa
40. Java Program to Reverse a Sentence Using Recursion
41. Java Program to calculate the power using recursion
42. Java Program to Calculate Average Using Arrays

43. Java Program to Find Largest Element of an Array

44. Java Program to Calculate Standard Deviation

45. Java Program to Add Two Matrix Using Multi-dimensional Arrays

46. Java Program to Multiply to Matrix Using Multi-dimensional Arrays

47. Java Program to Multiply two Matrices by Passing Matrix to a Function

48. Java Program to Find Transpose of a Matrix

49. Java Program to Find the Frequency of Character in a String

50. Java Program to Count the Number of Vowels and Consonants in a Sentence

51. Java Program to Sort Elements in Lexicographical Order (Dictionary Order)

52. Java Program to Add Two Complex Numbers by Passing Class to a Function

53. Java Program to Calculate Difference Between Two Time Periods

54. Java Code To Create Pyramid and Pattern

55. Java Program to Remove All Whitespaces from a String

56. Java Program to Print an Array

57. Java Program to Convert String to Date

58. Java Program to Round a Number to n Decimal Places

59. Java Program to Concatenate Two Arrays

60. Java Program to Convert Character to String and Vice-Versa

61. Java Program to Check if An Array Contains a Given Value

62. Java Program to Check if a String is Empty or Null

63. Java Program to Get Current Date/TIme

64. Java Program to Convert Milliseconds to Minutes and Seconds
65. Java Program to Add Two Dates

66. Java Program to Join Two Lists

67. Java Program to Convert List (ArrayList) to Array and Vice-Versa

68. Java Program to Get Current Working Directory

69. Java Program to Convert Map (HashMap) to List

70. Java Program to Convert Array to Set (HashSet) and Vice-Versa

71. Java Program to Convert Byte Array to Hexadecimal

72. Java Program to Create String from Contents of a File

73. Java Program to Append Text to an Existing File

74. Java Program to Convert a Stack Trace to a String

75. Java Program to Convert File to byte array and Vice-Versa

76. Java Program to Convert InputStream to String

77. Java Program to Convert OutputStream to String

78. Java Program to Lookup enum by String value

79. Java Program to Compare Strings

80. Java Program to Sort a Map By Values

81. Java Program to Sort ArrayList of Custom Objects By Property

82. Java Program to Check if a String is Numeric