Muthoot Institute of Technology and Science (MITS)

Department of Computer Applications

II Semester MCA

20MCA132 OBJECT ORIENTED PROGRAMMING LAB

Schedule of Lab Work

Sl.No	Program Name	Planned Date
1	**Basic Java Programs- Set 1 [CO 1]- Write these programs in Observation Book (1 hr)**	
	Note:- All the input values should be initialized in the program itself	
1.1	Write a program to display any message	17.02.2025
1.2	Write a Java program to display default value of all primitive data types of java	17.02.2025
1.3	Perform all arithmetic operations on two integer numbers.	17.02.2025
1.4	Program for performing all postfix and prefix increment (++) operations and postfix and prefix decrement (- -) operations on an integer number	17.02.2025
1.5	Perform left shift 2, left shift 3 and shift 4 on an integer number	17.02.2025
1.6	Perform right shift 2, right shift 3 and right shift 4 on an integer number	17.02.2025
1.7	Find the largest among two numbers using ternary operator (? :)	17.02.2025
2	**Basic Java Programs- Set 2 [CO 1]- Write these programs in Observation Book (1 hr)**	
	Note:- Input should given through command line argument	
2.1	Write a program to get the name using command line	17.02.2025
2.2	Perform all arithmetic operations on two integer numbers.	17.02.2025
2.3	Find the largest among two numbers using ternary operator (? :).	17.02.2025
2.4	Check whether the given number is odd or even	17.02.2025
2.5	Program to find the given number is +ve or – ve.	17.02.2025
2.6	Find the sum of first 'N' natural numbers using a) while loop b) do-while loop c) for loop	17.02.2025
3	**Basic Java Programs- Set 3 [CO 1]- Write these programs in Observation Book (2hrs)**	
	Note:- Inputs should be given through the command line arguments.	
3.1	Print the Fibonacci Series up to a limit	20.02.2025
3.2	Find the sum of the digits of a given number	20.02.2025
3.3	Check whether the given number is prime or not	20.02.2025
3.4	Find the factorial of a number	20.02.2025
3.5	Write a java program to display the following pattern * * * * * * * * * * * * * * *	20.02.2025
3.6	Print the multiplication table of a given number	20.02.2025
3.7	Check whether the given number is Armstrong or not	20.02.2025
3.8	Check whether the given number is palindrome or not	20.02.2025
3.9	Find the largest among 3 numbers	20.02.2025
3.10	Program to print day of week name using switch...case	20.02.2025
3.11	Program to check alphabet, digit or special character	20.02.2025
3.12	Print the prime numbers up to the limit n	20.02.2025

4	**Arrays-Set 4 [CO 1]- Write these programs in Observation Book**	
	Note:- The inputs are given through the command line argument or use Scanner class	
4.1	Sort an integer array	27.02.2025
4.2	Find the length of an array	27.02.2025
4.3	Read 2 matrices and perform matrix addition and multiplication	27.02.2025
5	**Strings-Set 5 [CO 1]- Write these programs in Observation Book**	
5.1	Create different string from the following data types i) character array ii) byte array	27.02.2025
5.2	Write a java program to reverse a given string	27.02.2025
6	**Fair record Questions- Set 6 [CO 1]- Prepare the fair record (2 hr)**	
6.1	Write the following programs i) Print the prime numbers up to a limit ii) Print the 3-digit Armstrong numbers between two intervals.	03.03.2025
6.2	Search an element in an array	03.03.2025
6.3	Read a matrix from the console and check whether it is symmetric or not.	03.03.2025
6.4	Perform the following operations on strings i. Find the length of the string ii. Character at second and fourth position iii. Find the sub string using start index only iv. Find the sub string using start index and end index v. compare two strings lexicographically. vi. compare two strings lexicographically, ignoring case differences. vii. concatenate a given string to the end of another string. viii. replace a specified character with another character. ix. check whether a given string starts with another string. x. convert all characters in a string to lowercase xii. convert all characters in a string to uppercase.	03.03.2025
6.5	Write a java program to i. check whether a given string is palindrome or not. ii. sorting a given list of names in ascending order	03.03.2025
6.6	Write a program in java for string handling which performs the following i. Check the capacity of the StringBuffer object. ii. Reverse the content of this string and convert the resultant string in upper case iii. Read another string and append it to the resultant string of above.	03.03.2025