WEEK -1	Lab Exercise Programs	DATE:
1. Write a sample program in C language 2. Write a C program by using \n and \t 3. Write a C Program to Add Two Integers. 4. Write a C Program to print Hello World 5. Write a C Program to Compute Quotient and Remainder. 6. Write a C Program to Find the Size of int, float, double and char. 7. Write a C Program to Swap Two Numbers Using Temporary Variable. 8. Write a C program to find the sum of the two numbers 9. Write a C program to swap the two numbers 10. Write a C language program to find the sum and multiplication of given number **Assessment-1** 　**Write a C program to accept two numbers and print the sum, sub, product, div, and find the big number between them and display our college name as follows** 　**@ @ @ @ @ @** 　**@ S S D C @** 　**@ @ @ @ @ @**	**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

WEEK -2	Lab Exercise Programs	DATE:
11. Write a C program to accept the two numbers from the keyboard and print the sum of the two numbers 12. Create a program to calculate area of a circle 13. Write a C program to print the sizes of various data types 14. Write a C Program to find addition, subtraction, multiplication and division of two numbers using arithmetic operator 15. Write a C program on formatted input output operations 16. Write a C language programmer on arithmetic operators 17. Write a program on if condition 18. Write a C program to Find Convert Celsius to Fahrenheit **Assessment-2** **Simple Interest Calculator** Accept principal, rate, and time from the user. Calculate and display simple interest		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

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WEEK -3	**Lab Exercise Programs**	**DATE:**
19. Write a C Program to Accept the age of student and find out whether major or not 20. Write a C Program to Accept a number find out above 100 or not 21. Write a C Program to check the biggest of two numbers. 22. Write a C Program to check the enterer year is leap year or not. 23. Accept one number find out even or Odd 24. Write a C Program to find the given number positive or negative 25. Write a C Program to find biggest number among three numbers **Assessment-3** Electricity Bill Slab Use conditional statements to apply: • First 100 units: ₹5/unit • Next 100 units: ₹8/unit • Above 200 units: ₹10/unit		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

WEEK -4	**Lab Exercise Programs**	**DATE:**
26. Write a C Program to Check Whether a person is eligible for voting or not. 27. Write a C Program to check the entered character is vowel or cosonant. 28. Write a C Program to Check Whether a Number is Multiple of Both 3 and 5 29. Write a C Program to Check Alphabet, Digit or Special Character **30.** Write a C Program to Check Whether a Character is Uppercase or Lowercase Write a C Program to Check if a Number is Three-Digit or Not **Assessment-4** Grade Calculator Input marks and use `if-else if` to assign grade: • `>=90`: A • `80-89`: B • `70-79`: C • `<70`: Fail		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

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WEEK -5	Lab Exercise Programs	DATE:
31. Write a C Program to simple calculator using switch statement 32. Accept 2 numbers 1 arithmetic operator print the operation based on the operator 33. Write a program to print one to hundred numbers in C language 34. Write a C program to print 100 to 1 35. Write a C program to print 1 to 100 even numbers 36. Write a C program to print 1 to 100 odd numbers 37. Where a C program to print to 100 to 1 even numbers 38. Accept one number print the natural numbers up to that number **Assessment-5** **ATM PIN Retry System** **Allow the user 3 chances to enter the correct PIN using a `while` or `do-while` loop.**		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

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	DATE:
WEEK -6 **Lab Exercise Programs**	
39. Write a C Program to check the number is Armstrong or not 40. Write a C Program to print first 10 natural numbers 41. Write a C Program to Accept a number print the table 42. Write a C Program to Accept one number find the sum of the given number	**LAB FACULTY SIGN:**
43. Write a C Program to Accept one number find the reverse of the given number 44. Write a C Program to Accept a number find the factorial of given number	**CLASS FACULTY SIGN:**
45. Write a C Program to Accept one number find the factors of given number 46. Write a C Program to Accept one number find out the palindrome or not **Assessment-6** Customer Feedback Collector Collect ratings (1 to 5 stars) from n customers. Count how many gave each rating.	

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WEEK -7	Lab Exercise Programs	DATE:
47. Write a C Program to Accept a number find out prime or not 48. Write a C Program to print the Fibonacci series 49. Write a C Program to Find G.C.D of any two numbers 50. Create a program on Array Access 5 values and print it 51. . Write a C Program to find sum and average of element using 1D array 52. Write a C program to Find Maximum and Minimum from an array 53. Write a C program to reverse an array 54. Write a C Program to print sort and merge operations on an array **Assessment-7** Daily Temperature Tracker Input temperatures for 7 days in an array. Find the average temperature and the highest and lowest.		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

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WEEK -8	**Lab Exercise Programs**	**DATE:**
55. Write a program to Sort an Array 56. Write a program to perform matrix addition. 57. Write a program to perform matrix subtraction. 58. Write a C Program to perform matrix multiplication. 59. Write a program to create a function to find a Factorial of a Number 60. Write a program to create a function to find Greatest of Two Numbers **61.** Write a program to create a function to Reverse a Number **Assessment-8** Calculator Using Functions Create a menu-driven calculator using functions like `add()`, `subtract()`, `multiply()`, and `divide()`.		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

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WEEK -9	Lab Exercise Programs	DATE:
62. Write a C program on function without arguments without return type 63. Write a C program on function with argument and with written type 64. Write a C program on function with argument and without return type 65. Write a C program on function without argument and with written type 66. Write a program on Call by Value and Call by reference 67. Write a C program on mathematical functions 68. Write a C Program to find addition,substraction,multiplication and division of two numbers using function 69. Write a program to print 1 to 100 numbers by using recursive function **Assessment:** EMI Calculator Write a function to calculate monthly EMI given principal, interest rate, and tenure.		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

WEEK -10	Lab Exercise Programs	DATE:
70. Write a C program to Swap Two Numbers Using Pointers 71. Write a C program to find Pointer to Pointer Example 72. Write a C program on structure using student data 73. Write a C program to Array of Structures 74. Write a C program to Pointer to Structure 75. Write a C Program to Sort Array of Structures by Marks 76. Write a C program to Pass Structure to Function		**LAB FACULTY SIGN:**
Assessment-10: EMI Calculator Write a function to calculate monthly EMI given principal, interest rate, and tenure.		**CLASS FACULTY SIGN:**

WEEK -11	**Lab Exercise Programs**	**DATE:**

77. Write a C++ program to print "Hello World"
78. Write a C++ program to add two numbers
79. Write a C++ program to read student name, roll no, marks and display the same using class and object.
80. Write a C++ program to calculate an area of rectangle using encapsulation.
81. Write a C++ program using constructor overloading
82. Write a C++ program for function downloading
83. Write a C++ program on single inheritance
84. Write a C++ program on multiple inheritance
   Assessment-12
   LoginSystem
   Accept a username and password from the user and check if it matches a predefined value.
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WEEK -12	Lab Exercise Programs	DATE:
85. Write a C++ program to find area of a rectangle, circle and square using constructors. 86. Write a C++ program to implement Default Constructor, Parameterized Constructor, Copy Constructor 87. Write a C++ program to implement defining the constructor inside/outside of the class 88. Write a C++ program to implement all three constructors within a single class as well as use multiple classes (individual classes) 89. Write a program to implement constructor and destructor within a class 90. Write a C++ program to Assign values to the private data members without using constructor **Assessment-12** **Book Information System** - Use constructors to initialize a class with book details and destructors to clean up resources if needed.		**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**

WEEK -13	Lab Exercise Programs	DATE:
91. Write a C++ program to demonstrate single inheritance, multiple inheritance and multilevel inheritance 92. Write a C++ program to implement the overloaded constructors in inheritance 93. Write a C++ program to read and print student's information using two classes and simple inheritance. 94. Write a C++ program to read and print employee information using multiple inheritances. 95. Write a C++ program to demonstrate an Example of Hybrid Inheritance 96. Write a C++ program to find Area of Rectangle using inheritance **Assessment-13** **Employee and Manager Classes (Single Inheritance)** - Demonstrate single inheritance by creating a Manager class that inherits from an Employee class.	**LAB FACULTY SIGN:** **CLASS FACULTY SIGN:**