LAB Final Suggestion

1. Write a C program to calculate days into year, month, days.

    Sample Input: 397 days
    Sample Output: 1 Year 1 Month 2 Days.

2. Write a C program to check a year is leap year or not.

    Sample Input: 2100
    Sample Output: 2100 is not leap year.

3. Write a C program to print the following pattern.

```
*
* *
* * *
* * * *
* * * * *
```

4. Write a C program to print the following pattern.

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

5. Write a C program to print the following pattern.

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

6. Write a C program to print the following pattern.

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

7. Write a program to check a number is prime or not.

    Sample Input: 23
    Sample Output: 23 is not prime number.

8. Write a program to check a number is perfect or not.

Sample Input: 6
Sample Output: 6 is a perfect number.

9. Write a program to check a number is palindrome or not.

Sample Input: 121
Sample Output: 121 is a palindrome number.

10. Write a program to calculate sum of a digit.

Sample Input: 1214
Sample Output: Sum = 8.

11. Write a program to find the maximum number of an array.

Sample Input: [12, 4, 56, 45, 20]
Sample Output: Sum = Maximum number is 56.

12. Write a program for sorting an array using Bubble Sort.

Sample Input: [12, 4, 56, 45, 20]
Sample Output: Sum = [4, 12, 20, 45, 56]

13. Write a program for searching a value of an array using Linear Search.

Sample Input: [12, 4, 56, 45, 20]
Searching Value: 56
Sample Output: Searching Value at Location [2].

14. Write a program for searching a value of an array using Binary Search.

Sample Input: [12, 4, 56, 45, 20]
Searching Value: 56
Sample Output: Searching Value at Location [2].

15. Write a program to find the minimum number of an array.

Sample Input: [12, 4, 56, 45, 20]
Sample Output: Sum = Minimum number is 4.

16. Write a c program to calculate area of a triangle using Function.

Sample Input: a = 5, b = 2.
Sample Output: area = 5.

17. Write a c program to calculate factorial of a number using Recursive Function.

    Sample Input: n = 4.
    Sample Output: fact = 24.

18. Write a c program to compute X^Y using Recursive Function.

    Sample Input: x = 5, y = 2.
    Sample Output: Value = 25.

19. Write a c program to convert lower case into upper case of a string.

    Sample Input: diucse.
    Sample Output: DIUCSE.

20. Write a c program to check a string is palindrome or not.

    Sample Input: madam.
    Sample Output: madam is palindrome.