Lab Exercise 3

1. Write a program to generate Fibonacci series.

2. Write a program that asks two operands and an operator among +,-,* and /.Depending upon the entered operator, evaluate two operands and display the result.

3. Write a menu driven program which has following options.

   1. Factorial of a number.

   2. Prime or not.

   3. Odd or even

   4. Exit.

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4. Write a program to display following 1/2,2/3,3/4,4/5……………n-1/n.

5. Write a program to print out all Armstrong numbers between 1 and 500.

   [Hint: If sum of cubes of each digit of the number is equal to the number itself, then the number is called an Armstrong number. For example, 153= (1*1*1) + (5*5*5) + (3*3*3)]

6. Write a program to generate numbers from 1 to 10 using while statement.

7. Write a program to generate numbers from 9 to 0 using while statement.

8. Write a program to print all numbers from a to z using while loop.

9. Write a program to print all the numbers from 10 to 1 and find their sum using while loop.

10. Write a program to calculate factorial of a given number.

11. Write a program to demonstrate infinite loop.

12. Write a program to enter the numbers till the user wants and at the end it should display the count of positive, negative and zeros entered.

13. Write a program to generate following output.

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

14. Write a program to generate following output.

```
1                    55555
22                   4444
333                  333
4444                 22
```

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15. Write a program to display:

1 1 1 1 1

2 2 2 2

333

44

5

16. Write a program to generate following output.

A B C D E F G F E D C B A

A B C D E F   F E D C B A

A B C D E   E D C B A

A B C D   D C B A

A B C   C B A

A B   B A

A   A

17. Write a program to generate following output:

         *

        ***

       *****

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     ****

    ****

18. Write a program to display table from 1-10.

19. Write a program to display square if it is odd and cube if it is even ranging from 1-20.

20. Write a program to generate all combinations of 1,2 and 3 using for loop.

21. Two numbers are entered through the keyboard. Write a program to find the value of one number raised to the power of another.

22. Write a program to display odd numbers between 1-20 using for loop.

23. Write a program to fond the product of digits of any number

24. Write a program to find the sum of digits of any number.

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