

**DEPARTMENT OF COMPUTER APPLICATIONS**  
**20MCA131 PROGRAMMING LAB**

**LAB CYCLE 1.2**

1. Write a program to find the greatest number from three numbers.
2. Write a program to determine whether the character entered is a vowel or not.
3. Write a program to find the factorial of a number.
4. Write a program to generate Fibonacci series of N terms.
5. Write a program to find the sum of all items in a list.
6. Display the given pyramid with the step number accepted from the user.

Eg: N=4

1

2 4

3 6 9

4 8 12 16

5. Write a program to generate all factors of a number. [use while loop]
6. Write a program to find gcd of 2 numbers. [use while loop]
7. Write a program to print the reverse of a number. [use while loop]
8. Write a program to find whether the given number is an Armstrong number or not. [use while loop]
9. Write a program using a for loop to calculate the average of first n natural numbers.
10. Write a program using a for loop to print the multiplication table of n, where n is entered by the user.

11. Write a program to sum the series -  $\frac{1}{2} + \frac{2}{3} + \dots + \frac{n}{(n-1)}$  .

12. Construct following pattern using nested loop

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

```