Lab Assignment - 1

9. WAP to form a pyramid of numbers for a given number. Ex. for number 4

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

10. WAP to print the following pattern for n rows. Ex. for n=5 rows

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

11. WAP to check whether an integer number is an Armstrong number or not. If sum of cubes of each digit of the number is equal to the number itself, then the number is called an Armstrong number. E.g. 153 = (1 * 1 * 1) + (5 * 5 * 5) + (3 * 3 * 3)

Lab Assignment - 1

12. WAP to find out the sum of the numbers stored in an array of integers.
13. WAP to find largest element stored in an array.
14. WAP to find smallest element stored in an array.
15. WAP to find out the sum of the non-diagonal elements of a matrix.
16. WAP to check whether a given matrix is symmetric or not.
17. WAP to check whether a given matrix is orthogonal or not.
18. WAP to swap the pair of elements starting from beginning.
19. WAP to find the trace (sum of the diagonal elements) of a given mxn matrix.
20. WAP to multiply two matrices and display it.