- (1) Generate squares of all the integers from 1 to 50.
- (2) Count the number of characters in a string using a loop.
- (3) Print a string in reverse.
- (4) Find all the prime numbers below 50.
- (5) Generate the patterns given below:

- (6) Print Armstrong numbers in the range 1 to 1000. An Armstrong number is a number whose sum of the cubes of the digits is equal to the number itself. For example, $370 = 3^3 + 7^3 + 0^3$
- 7) implement the binary search using list and function