Coding Blocks Assignment – Industrial Training C++

Question 1

GANESHA'S PATTERN

Take as input N, an odd number (>=5) . Print the following pattern as given below for N = 7.

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

Question 2

Given N. For eg For N=6 , following pattern will be printed.

```
1
11
111
1001
11111
100001
```

Question 3

Take N as input. For a value of N=5, we wish to draw the following pattern :

```
5 4 3 2 1 0 1 2 3 4 5
  4 3 2 1 0 1 2 3 4
    3 2 1 0 1 2 3
      2 1 0 1 2
        1 0 1
          0
```

Question 4

Take N (number of rows), print the following pattern (for N = 5).

```
          0
        1 0 1
      2 1 0 1 2
    3 2 1 0 1 2 3
  4 3 2 1 0 1 2 3 4
5 4 3 2 1 0 1 2 3 4 5
```

Question 5

Take N as input. For a value of N=5, we wish to draw the following pattern :

```
5 4 3 2 1 0 1 2 3 4 5
  4 3 2 1 0 1 2 3 4
    3 2 1 0 1 2 3
      2 1 0 1 2
        1 0 1
          0
        1 0 1
      2 1 0 1 2
    3 2 1 0 1 2 3
  4 3 2 1 0 1 2 3 4
5 4 3 2 1 0 1 2 3 4 5
```

Question 6

You are given a number, N=78012821. You need to print the largest number that can be formed by subtracting each digit from 5. You can either subtract a particular digit from 5 or simply print that particular digit without subtracting it 5.

N=78012821
Output : 78543834 this is the largest number that can be formed by subtracting all the digits from 5 and getting the largest number.

Ex :

N=11223421
Ouput : 44333434

Question 7

Given a N, tell whether is an ARMSTRONG Number or Not
Armstrong Number : 371 = 3^3 + 7^3 +1^3, if this thing holds true then it's an Armstrong number.

ABCD=A^3 + B^3 + C^3 +D^3 it will be a Armstrong number.