**Core Java – Day1 Assesment**

1. Write a Java program to solve quadratic equations (use if, else if and else).

**2.**  Write a Java program to find the number of days in a month.

3. **16.** Write a program in Java to display the pattern like right angle triangle with a number.

*Test Data*  
Input number of rows : 10  
*Expected Output* :

1

12

123

1234

12345

123456

1234567

12345678

123456789

12345678910

4.Write a program in Java to make such a pattern like a pyramid with a number which will repeat the number in the same row. [Go to the editor](https://www.w3resource.com/java-exercises/conditional-statement/index.php#editorr)

1

2 2

3 3 3

4 4 4 4

**5.** Write a program in Java to print the Floyd's Triangle.  
Output :

Input number of rows : 5

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

6. Write a program in Java to display the pattern like a diamond.    
Input number of rows (half of the diamond) : 7  
Expected Output :

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7.Write a java program to do the following in a given Array:

1. Test if the given element contained in an array or not.
2. To find the index of an array
3. To remove the element in an array
4. To find the maximum and minimum value of an array.
5. To find duplicate values in an array.