Task 1 code:

```
public class Task1 {
  public static void main(String[] args) {
    int number = 0; // Number to print

    for (int row = 0; row <= 7; row++) {
      // Pad leading blanks
      for (int col = 1; col <= 7 - row; col++)
        System.out.printf("%4s", " ");

      // Print left half of the row
      for (int col = 0; col <= row; col++) {
        number = (int)Math.pow(2, col);

        System.out.printf("%4d", number);
      }

      // Print the right half of the row
      for (int col = row - 1; col >= 0; col--) {
        number = (int)Math.pow(2, col);

        System.out.printf("%4d", number);
      }

      // Start a new line
      System.out.print('\n');
    }
  }
}
```

Task 2 code:

```
import java.util.Scanner;

public class Task2 {
  public static void main(String args[]) {
    Scanner input = new Scanner(System.in);

    System.out.print("Enter circle1's center x-, y-coordinates, and radius: ");
    double x1 = input.nextDouble();
    double y1 = input.nextDouble();
    double r1 = input.nextDouble();

    System.out.print("Enter circle2's center x-, y-coordinates, and radius: ");
    double x2 = input.nextDouble();
    double y2 = input.nextDouble();
    double r2 = input.nextDouble();

    double distance = Math.pow((x1 - x2) * (x1 - x2) +
      (y1 - y2) * (y1 - y2), 0.5);
    if (distance + r2 <= r1)
      System.out.println("circle2 is inside circle1");
    else if (distance <= r1 + r2)
      System.out.println("circle2 overlaps circle1");
    else
      System.out.println("circle2 does not overlap circle1");
  }
}
```

Task 3 code:

```
public class Task3 {
  public static void main(String[] args) {
    java.util.Scanner input = new java.util.Scanner(System.in);

    // Enter values for list1
    System.out.print("Enter list1: ");
    int size1 = input.nextInt();
    int[] list1 = new int[size1];

    for (int i = 0; i < list1.length; i++)
      list1[i] = input.nextInt();

    // Enter values for list2
    System.out.print("Enter list2: ");
    int size2 = input.nextInt();
    int[] list2 = new int[size2];

    for (int i = 0; i < list2.length; i++)
      list2[i] = input.nextInt();

    if (equals(list1, list2)) {
      System.out.println("Two lists are identical");
    }
    else {
      System.out.println("Two lists are not identical");
    }
  }

  public static boolean equals(int[] list1, int[] list2) {
    // Hint: (1) first check if the two have the same size.
    // (2) Sort list1 and list2 using the sort method.
    // (3) Compare the corresponding elements from list1 and list2.
    //    return false, if not match. Return true if all matches.

    if (list1.length != list2.length)
      return false;

    java.util.Arrays.sort(list1);
    java.util.Arrays.sort(list2);
    for (int i = 0; i < list1.length; i++)
      if (list1[i] != list2[i])
        return false;

    return true;
  }

  public static boolean equalsAlterntive(int[] list1, int[] list2) {

    java.util.Arrays.sort(list1);
    java.util.Arrays.sort(list2);

    return java.util.Arrays.equals(list1, list2);
  }
}
```