Answer 1)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

import java.util.HashMap;
import java.util.Map;

public class HelloWorld {
    public static boolean isIsomorphic(String s, String t) {
        if (s.length() != t.length())
            return false;

        Map<Character, Character> sToT = new HashMap<>();
        Map<Character, Character> tToS = new HashMap<>();

        for (int i = 0; i < s.length(); i++) {
            char sChar = s.charAt(i);
            char tChar = t.charAt(i);

            if (!sToT.containsKey(sChar) && !tToS.containsKey(tChar)) {
                sToT.put(sChar, tChar);
                tToS.put(tChar, sChar);
            } else if (sToT.containsKey(sChar) && tToS.containsKey(tChar)) {
                if (sToT.get(sChar) != tChar || tToS.get(tChar) != sChar)
                    return false;
            } else {
                return false;
            }
        }

        return true;
    }

    public static void main(String[] args) {
        String s = "egg";
        String t = "add";
        System.out.println(isIsomorphic(s, t));  // Output: true
    }
}
```

Answer 2)

```java
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

public class HelloWorld {
    public static boolean isStrobogrammatic(String num) {
        int left = 0;
        int right = num.length() - 1;

        while (left <= right) {
            char leftChar = num.charAt(left);
            char rightChar = num.charAt(right);

            if (!isStrobogrammaticPair(leftChar, rightChar))
                return false;

            left++;
            right--;
        }

        return true;
    }

    private static boolean isStrobogrammaticPair(char c1, char c2) {
        switch (c1) {
            case '0':
                return c2 == '0';
            case '1':
                return c2 == '1';
            case '6':
                return c2 == '9';
            case '8':
                return c2 == '8';
            case '9':
                return c2 == '6';
            default:
                return false;
        }
    }

    public static void main(String[] args) {
        String num = "69";
        System.out.println(isStrobogrammatic(num));  // Output: true
    }
}
```

Answer 3)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

public class HelloWorld {
    public static String addStrings(String num1, String num2) {
        StringBuilder sum = new StringBuilder();
        int carry = 0;
        int i = num1.length() - 1;
        int j = num2.length() - 1;

        while (i >= 0 || j >= 0 || carry > 0) {
            int digit1 = i >= 0 ? num1.charAt(i) - '0' : 0;
            int digit2 = j >= 0 ? num2.charAt(j) - '0' : 0;
            int currentSum = digit1 + digit2 + carry;
            carry = currentSum / 10;
            int digit = currentSum % 10;
            sum.insert(0, digit);
            i--;
            j--;
        }

        return sum.toString();
    }

    public static void main(String[] args) {
        String num1 = "11";
        String num2 = "123";
        System.out.println(addStrings(num1, num2));  // Output: "134"
    }
}
```

Answer 4)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

public class HelloWorld {
    public static String reverseWords(String s) {
        String[] words = s.split(" ");
```

```
        StringBuilder result = new StringBuilder();
        for (String word : words) {
            StringBuilder reversedWord = new StringBuilder(word);
            reversedWord.reverse();

            result.append(reversedWord).append(" ");
        }

        result.deleteCharAt(result.length() - 1);  // Remove the trailing whitespace

        return result.toString();
    }

    public static void main(String[] args) {
        String s = "Let's take LeetCode contest";
        System.out.println(reverseWords(s));
        // Output: "s'teL ekat edoCteeL tsetnoc"
    }
}
```

Answer 5)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

public class HelloWorld {
    public static String reverseStr(String s, int k) {
        char[] chars = s.toCharArray();

        for (int i = 0; i < chars.length; i += 2 * k) {
            int start = i;
            int end = Math.min(i + k - 1, chars.length - 1);

            while (start < end) {
                char temp = chars[start];
                chars[start] = chars[end];
                chars[end] = temp;
                start++;
                end--;
            }
        }
```

```
        return String.valueOf(chars);
    }

    public static void main(String[] args) {
        String s = "abcdefg";
        int k = 2;
        System.out.println(reverseStr(s, k));
        // Output: "bacdfeg"
    }
}
```

Answer 6)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

public class HelloWorld {
    public static boolean canShift(String s, String goal) {
        if (s.length() != goal.length()) {
            return false;
        }

        String shifted = s;
        for (int i = 0; i < s.length(); i++) {
            if (shifted.equals(goal)) {
                return true;
            }
            shifted = shiftLeft(shifted);
        }

        return false;
    }

    private static String shiftLeft(String s) {
        return s.substring(1) + s.charAt(0);
    }

    public static void main(String[] args) {
        String s = "abcde";
        String goal = "cdeab";
        System.out.println(canShift(s, goal));  // Output: true
```

```
    }
}
```

Answer 7)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

public class HelloWorld {
    public static boolean backspaceCompare(String s, String t) {
        return buildString(s).equals(buildString(t));
    }

    private static String buildString(String str) {
        StringBuilder result = new StringBuilder();

        for (char ch : str.toCharArray()) {
            if (ch == '#') {
                if (result.length() > 0) {
                    result.deleteCharAt(result.length() - 1);
                }
            } else {
                result.append(ch);
            }
        }

        return result.toString();
    }

    public static void main(String[] args) {
        String s = "ab#c";
        String t = "ad#c";
        System.out.println(backspaceCompare(s, t));  // Output: true
    }
}
```

Answer 8)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online
```

```
public class HelloWorld {
    public static boolean checkStraightLine(int[][] coordinates) {
        if (coordinates.length <= 2) {
            return true;
        }

        int x0 = coordinates[0][0];
        int y0 = coordinates[0][1];
        int x1 = coordinates[1][0];
        int y1 = coordinates[1][1];

        for (int i = 2; i < coordinates.length; i++) {
            int x = coordinates[i][0];
            int y = coordinates[i][1];

            if ((y1 - y0) * (x - x0) != (y - y0) * (x1 - x0)) {
                return false;
            }
        }

        return true;
    }

    public static void main(String[] args) {
        int[][] coordinates = {{1,2},{2,3},{3,4},{4,5},{5,6},{6,7}};
        System.out.println(checkStraightLine(coordinates));  // Output: true
    }
}
```