public class XOROperations {

public static void main(String[] args) {

// Input string

String inputString = "Hello World";

// Apply AND and XOR operations

String[] results = applyOperations(inputString);

String andResult = results[0];

String xorResult = results[1];

// Print results

System.out.println("Original String: " + inputString);

System.out.println("AND Result: " + andResult);

System.out.println("XOR Result: " + xorResult);

}

public static String[] applyOperations(String inputString) {

StringBuilder andResult = new StringBuilder();

StringBuilder xorResult = new StringBuilder();

for (int i = 0; i < inputString.length(); i++) {

char currentChar = inputString.charAt(i);

// Perform AND operation with 127

andResult.append((char) (currentChar & 127));

// Perform XOR operation with 127

xorResult.append((char) (currentChar ^ 127));

}

return new String[]{andResult.toString(), xorResult.toString()};

}

}