Problome p2;

import java.util.Scanner;

public class p2

{

public static void main(String args[])

{

Scanner input = new Scanner(System.in);

// Read a positive decimal number

System.out.println("Enter a positive decimal number:");

int decimalNumber = input.nextInt();

// Check if the number is positive

if (decimalNumber < 0)

{

System.out.println("Please enter a positive number.");

}

else

{

String binaryEquivalent = convertToBinary(decimalNumber);

System.out.println("Binary equivalent: " + binaryEquivalent);

}

}

// Method to convert a decimal number to binary

public static String convertToBinary(int decimalNumber)

{

if (decimalNumber == 0)

{

return "0";

}

StringBuilder binaryNumber = new StringBuilder();

// Perform the algorithm steps

while (decimalNumber > 0)

{

int remainder = decimalNumber % 2;

binaryNumber.insert(0, remainder);

decimalNumber = decimalNumber / 2;

}

return binaryNumber.toString();

}

}