```
import java.util.Scanner;
import java.io.File;
import java.io.IOException;
public class Binary {
      public Binary() {
            System.out.println("PLease enter 'file' if using file or 'input' if
using the console.");
            Scanner scanner = new Scanner(System.in);
            String input = scanner.nextLine();
            String numberInput = "";
            if (input.equals("file")) {
                  try {
                        System.out.println("Enter your file name: ");
                        input = scanner.nextLine();
                        Scanner fileScanner = new Scanner(new File(input));
                        numberInput = fileScanner.nextLine();
                  } catch (IOException ex) {
                        System.out.println("File not found.");
                        scanner.close();
                        System.exit(1);
                  }
            else {
                  numberInput = scanner.nextLine();
           }
            System.out.println("If you are translating from decimal to binary, type
\"dtb\".");
            System.out.println("If you are translating from binary to decimal, type
\"btd\".");
            input = scanner.nextLine();
            if (input.equals("dtb")) {
                  String answer = ""
                  int number = Integer.parseInt(numberInput);
                  while(number > 0) {
                        if (number % 2 == 1) {
                              answer = "1" + answer;
                        else {
                              answer = "0" + answer;
                        number = number/2;
                  System.out.println(answer);
            else {
                  int answer = 0;
                  for (int a = numberInput.length() - 1; a >= 0; a--) {
                        if (numberInput.charAt(a) == '1') {
                              answer = answer + (int)(Math.pow(2,
numberInput.length()-a-1));
```