```
import java.io.File;
import java.io.IOException;
import java.util.Scanner;
public class BinaryTranslator {
      public BinaryTranslator() {
            System.out.println("Please enter \"file\" to enter a file or \"input\"
to use the console.");
            Scanner scanner = new Scanner(System.in);
            String input = scanner.nextLine();
            String numberInput = "";
            if(input.equals("file")) { // input from a 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 { // input from the console
                  System.out.println("Input a number");
                  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")) { // decimal to binary
                  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 { // binary to decimal
                  int answer = 0;
                  int b = 0;
                  for (int a = numberInput.length() - 1; a >= 0; a--) {
                        if (numberInput.charAt(a) == '1') {
                              answer = answer + (int)(Math.pow(2, b));
                        if (numberInput.charAt(a) == '0') {
                              answer = answer + 0;
                        b++;
                  }
```

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System.out.println(answer);
}
scanner.close();
}

public static void main(String[] args) {
    new BinaryTranslator();
}
```