Instructions (READ):

1. If you have a question raise your hand.
2. You must stop working on your quiz when time is up.
3. After taking the quiz, do not post in Piazza nor discuss with any student the contents of the quiz. Posting in Piazza any quiz information represents an academic integrity violation.

Write a Java Program that reads an integer and prints the number in binary. For example, if the user enters 8 the program will display 1000. To compute the binary number divide the value provided by the user by 2 until you get 0. The set of remainders that are generated (when read from right to left) represent the binary number. For this problem:

1. The program will display the message “Enter integer positive value: ”.
2. If the user enters a negative value the program will print the message “Invalid value” and will stop.
3. The program will display the result by using the message “Binary number is: ” followed by the binary number.
4. Hint: Notice that the result does not need to be a number; it is just a string with the binary number that corresponds to the value provided by the user.
5. Use the Scanner class for input and System.out.println for output.

Answer:

```java
Scanner scanner = new Scanner(System.in);

System.out.println("Enter integer positive value: ");
int value = scanner.nextInt();
if (value < 0) {
    System.out.println("Invalid value");
} else {
    String result = "";
    while (value != 0) {
        int remainder = value % 2;
        result = remainder + result;
        value = value / 2;
    }
    System.out.println("Binary number is: "+ result);
}
scanner.close();
```