

quiz 1

pt 1

```
public class pt1 {  
    public static void main(String[] args) {  
        //print something 10 times  
        for (int i = 0; i < 10; i++) {  
            System.out.println("REEEEEEEEEEEEEEEEE!");  
        }  
    }  
}
```

```
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!  
REEEEEEEEEEEEEEEEE!
```

pt 2

```
import java.util.Scanner;  
  
public class pt2 {  
    public static void main(String[] args) {  
        //enter num and tell if >50 or not  
        Scanner input = new Scanner(System.in);  
        System.out.println("Input a number");  
        int num = input.nextInt();  
        if (num < 50) {  
            System.out.println("Your number is less than 50");  
        }  
        if (num > 50) {  
            System.out.println("Your number is greater than 50");  
        }  
        if (num == 50) {  
            System.out.println("Your number is 50");  
        }  
        input.close();  
    }  
}
```

```
Input a number
1
Your number is less than 50
Input a number
50
Your number is 50
Input a number
51
Your number is greater than 50
```

pt 3

```
import java.util.Scanner;

public class pt3 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter a number");
        int num = input.nextInt();
        int absolute = Math.abs(num);
        System.out.println("The absolute value of " + num + " is " + absolute);
        input.close();
    }
}
```

```
Enter a number
-56
The absolute value of -56 is 56
```

pt 4

```
import java.util.Random;

public class pt4 {
    public static void main(String[] args) {
        Random rand = new Random();
        int max = 200;
        int min = 100;
        int range = rand.nextInt(max + 1 - min) + min;
        System.out.println(range);
    }
}
```

pt 5

```
public class pt5 {  
    public static void main(String[] args) {  
        System.out.println(Math.log(5));  
    }  
}
```

1.6094379124341003

pt 6

```
import java.util.Scanner;  
  
public class pt6 {  
    public static void main(String[] args) {  
        Scanner input = new Scanner(System.in);  
        System.out.println("Insert a number");  
        int volt = input.nextInt();  
        if (volt < 30) {  
            System.out.println("Low voltage!");  
        }  
        else if (volt <= 60 && volt >= 30) {  
            System.out.println("Nominal voltage!");  
        }  
        else if (volt > 60 && volt <= 100) {  
            System.out.println("High voltage!");  
        }  
        input.close();  
    }  
}
```

```
Insert a number  
1  
Low voltage!  
Insert a number  
35  
Nominal voltage!  
Insert a number  
98  
High voltage!
```

pt 7

```

public class pt7 {
    public static void main(String[] args) {
        int counter = 0;
        for (int i = 0; i < 11; i++) {
            System.out.println("REEEEEEEEEEEEEEE! " + counter);
            counter++;
        }
    }
}

```

```

REEEEEEEEEEEEEEE! 0
REEEEEEEEEEEEEEE! 1
REEEEEEEEEEEEEEE! 2
REEEEEEEEEEEEEEE! 3
REEEEEEEEEEEEEEE! 4
REEEEEEEEEEEEEEE! 5
REEEEEEEEEEEEEEE! 6
REEEEEEEEEEEEEEE! 7
REEEEEEEEEEEEEEE! 8
REEEEEEEEEEEEEEE! 9
REEEEEEEEEEEEEEE! 10

```

pt 8

```

import java.util.Scanner;

public class pt8 {
    private static int a50 = 0;
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        do {
            System.out.println("Input a number");
            int num = input.nextInt();
            if (num < 50) {
                System.out.println("Your number is less than 50");
            }
            if (num > 50) {
                System.out.println("Your number is greater than 50");
                a50++;
            }
            if (num == 50) {
                System.out.println("Your number is 50");
            }
            if (num == 0) {
                System.out.println("\nYou found the secret!");
                System.out.println("You entered a number >50 [" + a50 + "] times!");
                break;
            }
        } while (true);
    }
}

```

```
        input.close();  
    }  
}
```

```
Input a number  
50  
Your number is 50  
Input a number  
54  
Your number is greater than 50  
Input a number  
7  
Your number is less than 50  
Input a number  
56  
Your number is greater than 50  
Input a number  
78  
Your number is greater than 50  
Input a number  
9  
Your number is less than 50  
Input a number  
90  
Your number is greater than 50  
Input a number  
0  
Your number is less than 50  
  
You found the secret!  
You entered a number >50 [4] times!
```