

Java Number Lab

```
/**
```

```
 * Question: Change Problem1 to show maximum values instead of minimum values.
```

```
 * After that what is the output?
```

```
 */
```

```
class Problem1 {  
    public static void main(String args[]) {  
  
        //integers  
        byte smallestByte = Byte.MAX_VALUE;  
        short smallestShort = Short.MAX_VALUE;  
        int smallestInteger = Integer.MAX_VALUE;  
        long smallestLong = Long.MAX_VALUE;  
  
        //real numbers  
        float smallestFloat = Float.MAX_VALUE;  
        double smallestDouble = Double.MAX_VALUE;  
  
        //Display them all.  
        System.out.println("The Largest byte value is "  
            + smallestByte);  
        System.out.println("The Largest short value is "  
            + smallestShort);  
        System.out.println("The Largest integer value is "  
            + smallestInteger);  
        System.out.println("The Largest long value is "  
            + smallestLong);  
  
        System.out.println("The Largest float value is "  
            + smallestFloat);  
        System.out.println("The Largest double value is "  
            + smallestDouble);  
    }  
}
```

```

/**
 * Question: This program should display 16 and then exit.
 * Please take necessary action to do that.
 */
class Problem3 {
    public static void main(String[] arg) {

        String[] args = {"1", "2", "3", "10"};
        int arguments = args.length;

        if (arguments < 2) {
            System.out.println("This program requires two command-line arguments.");
        } else {
            int result = 0;

            for (int i = 0; i < arguments; i++) {
                result += Integer.valueOf(args[i]).intValue();
            }

            System.out.println(result);
        }
    }
}

```

//write output

```

public class Lab1
{
    public static void main(String[] args)
    {
        Integer i = Integer.parseInt("kona", 34);
        System.out.println(i);
    }
}

```

//write output

```

public class Lab2 {
    public static void main(String[] args) {
        double h = 100.675;
        double i = - 100.500;
        double d = Math.abs(h);
        double e = Math.abs(i);
        double f = -100.49;
        System.out.println("rint h : "+Math rint(d));
        System.out.println("round h : "+Math.round(d));
        System.out.println("floor h : "+Math.floor(d));
        System.out.println("ceil h : "+Math.ceil(d));
    }
}

```

```

        System.out.println("rint i : "+Math.rint(e));
        System.out.println("round i : "+Math.round(e));
        System.out.println("floor i : "+Math.floor(e));
        System.out.println("ceil i : "+Math.ceil(e));
        System.out.println("rint f : "+Math.rint(f));
        System.out.println("round f : "+Math.round(f));
        System.out.println("floor f : "+Math.floor(f));
        System.out.println("ceil f : "+Math.ceil(f));
    }
}

```

```
package lab_19_04_18;
```

```

public class Lab1 {
    public static void main(String args[]) {
        Integer a = -8;
        double d = 10.25;
        float f = -450;
        int b = -9;
        double e = 100.675;

        System.out.println(Math.abs(a));
        System.out.println(Math.abs(d));
        System.out.println(Math.sqrt(f));
        System.out.println(Math.ceil(b));
        System.out.println(Math.rint(e));
    }
}

```

```
package lab_19_04_18;
```

```

public class Lab2 {
    public static void main(String args[]) {
        double x = 91.635;
        double y = 8.763;
        float f = 100;
        float g = 90.5684f;
        Integer s = 562588;

        System.out.printf("Value %.4f%n", Math.E);
        System.out.printf("exp(%.3f) is %.2f%n", x, Math.exp(y));
        System.out.println(Math.round(g));
        System.out.println(s.longValue());
    }
}
-----

```