

Lab 4

Scanners & Expressions

Objectives of this Lab:

1. Update your eid in zyBooks
2. Learn how to interpret Java expressions
3. Practice using a Scanner to read keyboard input
4. Practice using System.out.printf to format output

Update your eID in zyBooks

IN zyBooks, it will ask for your student ID. Make this your eID and NOT your 9-number student ID number.

Your eID is your username on the Linux system.

Take a moment to log into zyBooks and update this now.

Eclipse

Create a new Java Project named Lab4. Make a class named Lab4. Work out the problems on paper. Then add comments at the top of your program that shows what the following Java code prints. You must take into account integer versus floating-point math, operator precedence, and parentheses. Remember PEMDAS.

```
//Operator precedence, integer math  
System.out.println(2 - 23 % 10 + 3 * 12 - 20);
```

```
//Operator precedence, floating-point math  
System.out.println(2.4 + 23.1 - 10.0 * 3.1 - 12.5 / 6.25);
```

```
//Operator precedence, mixed math  
System.out.println(65 % 15 + 3.5 * (5 / 2));
```

After completing the comments, copy the code above into the main method in Lab4.java and see how well you interpreted the Java expressions. Your TA will discuss the answers to the questions, before starting on the programming exercise below.

Make sure that your name is at the top of your program and submit to GitHub Classroom for credit.

<https://classroom.github.com/a/HEKTIncl>

zyLabs

Open up zyLabs and follow along with your TA in Lab 3 Demo. They will explain the lab as they demonstrate and go through it. You should follow along. You will submit this part of zyLabs.

After the demo is completed, you need to complete Lab 4: On Your Own. Submitting both Lab 4 Demo and Lab 4: On Your Own will give you your total grade for Lab 3.