

Lab 1 : Escape Sequences and Expressions

This is an individual assignment for completion. However, you can collaborate in your group (as questions of your group members where necessary).

Activity: Escape Sequences

1. What is the output of the following `println` statements?

```
System.out.println("\ta\tb\tc");
System.out.println("\\\\");
System.out.println("");
System.out.println("\"\"");
System.out.println("C:\nin\the downward spiral");
```

2. Write a `println` statement to produce this output:

```
/ \ // \\ /// \\\
```

3. What `println` statements will generate this output?

```
This program prints a
quote from the Gettysburg Address.
"Four score and seven years ago,
our 'fore fathers' brought forth on
this continent a new nation."
```

4. What `println` statements will generate this output?

```
A "quoted" String is
'much' better if you learn
the rules of "escape sequences."
Also, "" represents an empty String.
Don't forget: use \" instead of " !
' ' is not the same as "
```

Activity: Integer Division

5. Do you understand how to perform long division? What would be the result of the follow operations in a program (do not use a calculator)?

a. $\frac{14}{4}$

b. $\frac{45}{10}$

c. $\frac{218}{5}$

Activity: Remainder

6. Do you understand how to calculate a remainder? What is the result of the follow operations (do not use a calculator)?

a. $45 \% 6$

b. $2 \% 2$

c. $8 \% 20$

d. $11 \% 0$

Activity: Precedence

7. Do you understand how a program makes the determination of precedence? What would be the result of the follow operations in a program (do not use a calculator)?

a. $1 * 2 + 3 * 5 \% 4$

b. $1 + 8 \% 3 * 2 - 9$

c. $9 / 5$

d. $695 \% 20$

e. $7 + 6 * 5$

f. $7 * 6 + 5$

g. $248 \% 100 / 5$

h. $6 * 3 - 9 / 4$

i. $(5 - 7) * 4$

j. $6 + (18 \% (17 - 12))$

