COP-2210 – Lab 0

Objective

Students will be able to understand and master preliminary concepts by addressing various problems.

Guidelines

- The assignment is to be completed in pairs.
- Questions are based on content discussed in the Lecture and book readings.
- NetBeans is the IDE of choice.
- Students are expected to attend each lab session and actively participate in the lab activities.
- Lab should be completed and submitted by the end of the lab time. Extra time would be considered on a case by case analysis and last day to submit would be Friday.
- To submit, upload your lab solutions to the dropbox in Canvas.
- Make sure you include the information of the developers as a comment in the first lines of each lab document:

Student Name: _____ Student Name: _____
Panther ID: _____ Panther ID: _____
Week: _____
Section: _____

Lab Questions

1. Locate in the Java API (www.java.sun.com) the description of the class "JOptionPane" and paste a screenshot below.

2. Suppose you need to create a class named "Programmer". How would you name the file containing the class? After compilation, what would be the name of the resulting bytecode file?

3. Create a project, name it "Lab0_1". Add a java file and type in the code below

```
// My first program
public class MyFirstProgram
{
	public static void main ( String args[] )
	{
		System.out.println("I Love Java!!!");
	}
}
```

Build your project and run it. Paste below a screenshot of the NetBeans application; make sure the screenshot contains the output window.

4. In each of the cases below, the previous program has been modified to contain one error.

a)
```
// My first program
public class MyFirstProgram
{
	public static void main ( string args[] )
	{
		System.out.println("I Love Java!!!");
	}
}
```

b)
```
// My first program
public class MyFirstProgram
{
	public static void main ( String args[] )
	{
		system.out.println("I Love Java!!!");
	}
}
```

c)
```
// My first program
public class MyFirstProgram
{
	public static void main ( String args[] )
	{
		System.out.println("I Love Java!!!")
	}
}
```

d)
```
// My first program
public class MyFirstProgram
{
	public static void Main ( String args[] )
	{
		System.out.println("I Love Java!!!")
	}
}
```

Please describe below the nature of the error in each case.

Note: In a), b) and c), when you hover the mouse cursor over the error in the code, the environment provides an information describing the nature of the error. In d), the information on the error is produced after the program is run.

a) _____
b) _____
c) _____
d) _____

5. Create a project, name it “Lab0_2”. Add a java file and type in the code below

```
// My first program
public class MySecondProgram
{
        public static void main ( String args[] )
        {
                System.out.print("I Love ");
                System.out.println("Java!!!");
        }
}
```

Build your project and run it. Paste below a screenshot of the NetBeans application; make sure the screenshot contains the output window.

6. Create a folder and name it “Lab 0”. Create in it 3 subfolders named “Exercise 3”, “Exercise 5” and “Answers”, respectively. Add in subfolder “Exercise 3” the .java file of Exercise 3, add in subfolder “Exercise 5” the .java file of Exercise 5, and add in subfolder “Answers” the document with the answers of all questions. Compress folder “Lab 0” and submit it to the drobpox in Canvas.

Grading Rubric

Lab grade is 10 points (out of 1000 total course points). Question weights are as follows:

Question	**Points**
1	1 pts
2	1 pts
3	2 pts
4	2 pts
5	2 pts
6	2 pts

Answers will be graded based on correctness, completion, and organization.