**Lab 0.5**

**Must be checked off with Lab 1: MoneyApp**

**Part A: Review Questions**

1. **What is a computer?**
   1. an electronic device
   2. fast and accurate\_\_\_\_\_\_\_\_\_\_
   3. programmable
2. **What are the five tasks performed by computers?**
   1. input
   2. output
   3. process
   4. retrieve
   5. store
3. **What is a variable?**

a space reserved in memory

1. **What is the difference between variable declaration, assignment, and initialization? Please give an example of each.**

**declaration** - a space is reserved in memory, brought into being

**assignment** - data is placed in an existing memory location

**initialization** - data is placed in a memory location at the time the memory location is reserved

1. **How are variables and objects different?**

variable: a space is reserved in memory

object: brought into being

object can hold many pieces of data and methods

1. **Class definitions can be thought of as blueprints. What can we do with these blueprints? (Hint: two word answer)**

construct objects

1. **Must all methods have a return value? Explain.**

Methods need not have a return value.

1. **If a method has a return value, what must be done with the return value?**

Used or stored

1. **Write some pseudo code that will help us decide whether we should go outdoors. If the temperature is higher than 40 degrees we will go outside. It the temperature is lower than 40 degrees, we will stay inside.**

if (temp > 40)

outside = true;

else

outside = false;

1. **Write code for a for loop that will find the sum of the values 1 through 5. You may use Netbeans to write the code. Just write the code for the for loop here.**

for (int i = 0; i < arr.length - 1; i++)

total = total + i;

Here are the alphabetized answers to the review questions.

contain only one piece of data, no methods

contain potentially many pieces of data as well as methods

holds data of a particular type