Recitation 10

Concept 1 – references practice

A 60 second refresher -

Given the following code:

```
String a = "hello";
String b = "bye";
String c = a;
String d = c;
String e = "hello";
```

Will the following comparisons be true or false?

```
1. a==b
```

- d==a
- c==a
- 4. c.equals(a)
- 5. a==e
- 6. a.equals(e)

Now for some coding questions:

1. Given an int array in the main method, implement the void method "add5" that will add 5 to each element of that array. Use the following main method:

Concept 2 – OOP

OOP stands for Object Oriented Programming

In this exercise, we practice making and using constructors, getters, setters, and fields. You are going to pretend to be a bank with 3 customers. Write the bank account class to represent those customers. Your class should have:

- A constructor that does not take any arguments.
- A constructor that takes a String name
- A constructor that takes String customerName, int accountID, double initialBalance
- Getters for the balance, name, and ID
- Setters for the balance, name, and ID
- deposit and withdraw methods. The withdraw method should not let the customer withdraw more money than what is in their account.
- toString method that prints out the account's name, balance, and id

Complete the following main method (fill in code to do what the comments specify):

```
public static void main(String[] args){
    BankAccount bobs = new BankAccount();
    BankAccount lucys = new BankAccount("Lucy Lue");
    BankAccount johns = new BankAccount("John James", 3, 999.99);

//use setters to set bobs accountid to 1, bobs
//balance to 25.50, and bobs name to "Robert Bobert"

//use setters to set lucys accountid to 2, and lucys balance to 40

//use the toString method to print out bobs and lucys accounts

//withdraw 1000 from johns and use the toString method you
//implemented to print out his account.

//depost 50 to bobs then withdraw 30 and print out his account info.
}
```