**Lab 10 Pre-Lab**

***Lab Quiz***

*There will be a lab quiz at the beginning of lab this week. You may use a reference sheet (8.5 x 11 both sides). You may NOT look at your textbook. You may NOT look at any other projects in Eclipse or use any other applications. You are NOT allowed to access the Internet.*

**The following exercises must be completed before you come to lab. Your instructor will check your pre-lab exercises at the beginning of the lab period. Completion of the pre-lab is worth 10 points of the total 50 points for the lab.**

Create the UML class diagram for the Person class as described below:

The class has three instance variables:

* first name
* last name
* age

The class has the following methods

* A custom constructor that accepts values for all instance fields
* Accessor methods (getters) for all instance variables
* Mutator methods (setters) for all instance variables
* A toString method that should print the values of the instance variables in the form: *firstName lastName*, *age* years old. For example: Sue Smith who is 32 should print: Sue Smith, 32 years old
* An equals method where two objects are considered equal if the first and last names are the same.

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| Person |
| -firstName:String  -lastName:String  -age:int |
| +Person(String firstName , String lastName, int age)  +getFirstName() : String  +setFirstName(String firstName): void  +getLastName(): String  +setLastName(String lastName): void  +getAge() : int  +setAge(int age): void  +equals(Person): boolean  +toString(): String |

Create three test cases. (Chart on next page.

**Test Cases**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **first name** | **last name** | **age** |
| 1 | Person 1 | Bob | Marley | 26 |
| Person 2 | Cristian | Bale | 30 |
| 2 | Person 1 | Derreon | Rogers | 24 |
| Person 2 | Trenell | Wherry | 26 |
| 3 | Person 1 | Malik | Smith | 28 |
| Person 2 | Daniel | Stewart | 31 |

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