## **Programming I Assignment 2**

 Write an application that allows the user to enter a Fahrenheit temperature and displays the Celsius equivalent or enter a Celsius temperature and displays the Fahrenheit equivalent.
 The application should include a Celsius method which returns the Celsius equivalent of a Fahrenheit temperature using the following calculation;

```
celsius = 5.0/9.0 * (Fahrenheit - 32);
```

The application should also include a Fahrenheit method, which returns the Fahrenheit equivalent of a Celsius temperature using the following calculation;

```
fahrenheit = 9.0/5.0 * celsius + 32;
```

2. Given the Person class outlined below; you are required to write a tester class which creates an array large enough to hold two person objects. Populate the array and using a for loop, display it's contents. Following this, change just the age of the Person objects and re-display the contents of the array.

```
class Person {
          // Data Members
           private int age; // The age of this person
          private String name; // The name of this person
           private char gender; // The gender of this person
           // Default no argument constructor
          public Person() { this("Unassigned", 0, 'U'); // invokes overloaded constructor }
          // Overloaded Constructor
           public Person(String personName, int personAge, char personGender) {
                     name = personName:
                     age = personAge;
                     gender = personGender;
          // Returns the age of this person.
           public int getAge() { return age; }
           // Returns the gender of this person.
           public char getGender() { return gender; }
           // Returns the name of this person.
           public String getName() { return name; }
           // Sets the age of this person.
          public void setAge( int personAge ) { age = personAge; }
          // Sets the gender of this person.
           public void setGender( char personGender ) { gender = personGender; }
          // Sets the name of this person.
           public void setName( String personName ) { name = personName; }
          public String toString() { return getName() + " " + getAge() + " " + getGender(); }
} // end class
```