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Course: CS1073

Section: FR03B

Lab number: 2

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a)

Candidate 1:

Name: Mary Brown Number of Votes: 0

Party: Conservative Party

Candidate 2:

Name: Wendy Thomas Number of Votes: 0 Party: Green Party

Candidate 3:

Name: Ron McDonald Number of Votes: 0 Party: Liberal Party

b)

```
This class represents a candidate in an election.
@author Natalie Webber
@author Zohaib Khan 3740572
public class Candidate {
   // Instance variables:
   // For each Candidate object, store their name,
   // the number of votes they have received so far,
   // and their political party.
   private String name;
   private int numVotes;
   private String party;
   // adding a new instance variable
   private String slogan;
   // The constructor creates a new Candidate object
   // and initializes the instance variables.
   public Candidate (String nameIn, String partyIn, String
   sloganIn) {
      name = nameIn;
      numVotes = 0; //no votes counted yet
      party = partyIn;
      slogan = sloganIn;
   }
   // This is a method that we can call on a Candidate
   // object. (Specifically, it is an accessor method).
   // This method creates and returns a String containing
   // all of the information about the state of the object.
   public String toString () {
      return "Name: " + name + "\n"
           + "Number of Votes: " + numVotes + "\n"
           + "Party: " + party + "\n"
           + "Campaign Slogan: " + slogan + "\n";
   }
   // Adding votes method
   public void addVotes (int addByVotes) {
      numVotes = numVotes + addByVotes;
} // end of Candidate class
```

```
This is an example of a driver program; its purpose is
 to "try out" the Candidate class.
 @author Natalie Webber
 @author Zohaib Khan 3740572
public class Election {
   public static void main (String[] args) {
      // Create a few Candidate objects:
      Candidate candidate1 =
         new Candidate ("Mary Brown", "Conservative Party", "Vote for
         tomorrow");
      Candidate candidate2 =
         new Candidate ("Wendy Thomas", "Green Party", "The choice for
         change");
      Candidate candidate3 =
         new Candidate ("Ron McDonald", "Liberal Party", "New Vision,
         New Direction");
      // Creating a new Object:
      Candidate candidate4 =
         new Candidate ("Tim Bush", "Democratic Party", "The right man
         with the right experience");
      // Adding votes to candidates:
      candidate1.addVotes(160);
      candidate2.addVotes(209);
      candidate3.addVotes(271);
      candidate2.addVotes(113);
      // Now I can print out my candidates:
      System.out.println ("Candidate 1:\n" + candidate1.toString());
      System.out.println ("Candidate 2:\n" + candidate2.toString());
      System.out.println ("Candidate 3:\n" + candidate3.toString());
      System.out.println ("Candidate 4:\n" + candidate4.toString());
   }
} // end of Election class
```

d)

Candidate 1: Name: Mary Brown Number of Votes: 160 Party: Conservative Party Campaign Slogan: Vote for tomorrow Candidate 2: Name: Wendy Thomas Number of Votes: 322 Party: Green Party Campaign Slogan: The choice for change Candidate 3: Name: Ron McDonald Number of Votes: 271 Party: Liberal Party Campaign Slogan: New Vision, New Direction Candidate 4: Name: Tim Bush Number of Votes: 0 Party: Democratic Party Campaign Slogan: The right man with the right experience