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**Course:** CS1073

**Section:** FR03B

**Lab number:** 2

**Name:** Zohaib Hassan Khan

**UNB student number:** 3740572

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)

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This class represents a candidate in an election.

@author Natalie Webber

@author Zohaib Khan 3740572

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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

c)

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This is an example of a driver program; its purpose is

to "try out" the Candidate class.

@author Natalie Webber

@author Zohaib Khan 3740572

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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