**package** vote\_presidential\_candidates;

**import** javax.swing.JOptionPane;

**public** **class** vote\_presidential\_candidates

{

**public** **static** **void** main(String[] args)

{

// Define all variables needed.

String registration,gender,candidate;

String economy, civil, coronavirus;

**double** democrat\_voters=0,republican\_voters=0,other\_voters=0,total\_voters=0;

**int** democrat=0,republican=0,other=0;

**double** female\_voters=0,male\_voters=0;

**int** female=0,male=0;

**double** trump\_voters=0,biden\_voters=0;

**int** trump=0,biden=0;

**int** eco\_trump=0,eco\_biden=0;

**int** civil\_trump=0,civil\_biden=0;

**int** corona\_trump=0,corona\_biden=0;

**double** percent\_female\_trump\_voters, percent\_female\_biden\_voters;

**int** trump\_females=0,biden\_females=0;

**double** percent\_male\_trump\_voters, percent\_male\_biden\_voters;

**int** trump\_males=0, biden\_males=0;

**double** percent\_democrat\_trump\_voters, percent\_republican\_biden\_voters;

**double** percent\_trump\_economy, percent\_trump\_civil, percent\_trump\_coronavirus;

**double** percent\_biden\_economy, percent\_biden\_civil, percent\_biden\_coronavirus;

String more\_data="yes";

**while**(more\_data.equals("yes"))

{

// The data reads in the registration of the voter (Democrat, Republican, or Other).

registration=JOptionPane.*showInputDialog*(**null**,

"Enter your voter registration (Democrat, Republican, or Other) ", "",JOptionPane.***QUESTION\_MESSAGE***);

// The data reads in the gender of the voter (Female or Male).

gender=JOptionPane.*showInputDialog*(**null**,

"Enter your gender (Female or Male) ", "",JOptionPane.***QUESTION\_MESSAGE***);

// The data reads in the Presidential candidate the voter is choosing (Trump or Biden).

candidate=JOptionPane.*showInputDialog*(**null**,

"Enter the Presidential candidate you are choosing (Trump or Biden) ", "",JOptionPane.***QUESTION\_MESSAGE***);

// The data reads in which candidate has done better to manage the economy? (Trump or Biden).

economy=JOptionPane.*showInputDialog*(**null**,

"Which candidate has done better to manage the economy? (Trump or Biden) ", "",JOptionPane.***QUESTION\_MESSAGE***);

// The data reads in which candidate has done better to manage civil unrest? (Trump or Biden).

civil=JOptionPane.*showInputDialog*(**null**,

"Which candidate has done better to manage civil unrest? (Trump or Biden) ", "",JOptionPane.***QUESTION\_MESSAGE***);

// The data reads in which candidate has done better to manage the coronavirus? (Trump or Biden).

coronavirus=JOptionPane.*showInputDialog*(**null**,

"Which candidate has done better to manage coronavirus? (Trump or Biden) ", "",JOptionPane.***QUESTION\_MESSAGE***);

// Start the loop that reads in ALL data:

**if**(registration.equals("Democrat"))

democrat=democrat+1;

**else**

**if**(registration.equals("Republican"))

republican=republican+1;

**else**

other=other+1;

**if**(gender.equals("Female"))

female=female+1;

**else**

male=male+1;

**if**(candidate.equals("Trump"))

trump=trump+1;

**else**

biden=biden+1;

**if**(economy.equals("Trump"))

eco\_trump=eco\_trump+1;

**else**

eco\_biden=eco\_biden+1;

**if**(civil.equals("Trump"))

civil\_trump=civil\_trump+1;

**else**

civil\_biden=civil\_biden+1;

**if**(coronavirus.equals("Trump"))

corona\_trump=corona\_trump+1;

**else**

corona\_biden=corona\_biden+1;

// Compound Conditions:

**if**((gender.equals("Female"))&&(candidate.equals("Trump")))

trump\_females=trump\_females+1;

**else**

biden\_females=biden\_females+1;

**if**((gender.equals("Male"))&&(candidate.equals("Trump")))

trump\_males=trump\_males+1;

**else**

biden\_males=biden\_males+1;

more\_data=JOptionPane.*showInputDialog*(**null**,

"Enter more ? yes/no", "",JOptionPane.***QUESTION\_MESSAGE***);

}//End of the While Loop. Asks the user if he/she wants to enter more data.

// Count each thing you need to count:

total\_voters=female+male;

female\_voters=female;

male\_voters=male;

democrat\_voters=democrat;

republican\_voters=republican;

other\_voters=other;

// Mathematical calculations:

percent\_female\_trump\_voters=trump\_females\*1.0/female;

percent\_female\_biden\_voters=biden\_females\*1.0/female;

percent\_male\_trump\_voters=trump\_males\*1.0/male;

percent\_male\_biden\_voters=biden\_males\*1.0/male;

percent\_democrat\_trump\_voters=democrat\_voters\*1.0/trump;

percent\_republican\_biden\_voters=republican\_voters\*1.0/biden;

percent\_trump\_economy=eco\_trump\*1.0/total\_voters;

percent\_trump\_civil=civil\_trump\*1.0/total\_voters;

percent\_trump\_coronavirus=corona\_trump\*1.0/total\_voters;

percent\_biden\_economy=eco\_biden\*1.0/total\_voters;

percent\_biden\_civil=civil\_biden\*1.0/total\_voters;

percent\_biden\_coronavirus=corona\_biden\*1.0/total\_voters;

// Prints the candidate who won.

**if**(trump\_voters>biden\_voters)

{

System.***out***.println("Trump is the candidate who won! "+"\n");

}

**else**

**if**(biden\_voters>trump\_voters)

{

System.***out***.println("Biden is the candidate who won! "+"\n");

}

**if**(trump>biden)

System.***out***.println("Trump is the candidate who won! "+"\n");

**else**

System.***out***.println("Biden is the candidate who won! "+"\n");

// Prints the total number of voters.

System.***out***.println("Total number of voters: "+ total\_voters);

// Prints the number of female voters.

System.***out***.println("Total number of female voters: "+ female\_voters);

// Prints the number of male voters.

System.***out***.println("Total number of male voters: "+ male\_voters);

// Prints the total number of Democrats.

System.***out***.println("Total number of Democrats: "+ democrat\_voters);

// Prints the total number of Republicans.

System.***out***.println("Total number of Republicans: "+ republican\_voters);

//Prints the total number of Third Party Voters.

System.***out***.println("Total number of Third Party Voters: "+ other\_voters+"\n");

// Prints the percent of female voters for Trump.

System.***out***.println("Percent of female voters for Trump: "+ percent\_female\_trump\_voters);

// Prints the percent of female voters for Biden.

System.***out***.println("Percent of female voters for Biden: "+ percent\_female\_biden\_voters);

// Prints the percent of male voters for Trump.

System.***out***.println("Percent of male voters for Trump: "+ percent\_male\_trump\_voters);

// Prints the percent of male voters for Biden.

System.***out***.println("Percent of male voters for Biden: "+ percent\_male\_biden\_voters);

// Prints the percent of Democrats voting for Trump.

System.***out***.println("Percent of Democrats voting for Trump: "+ percent\_democrat\_trump\_voters);

// Prints the percent of Republicans voting for Biden.

System.***out***.println("Percent of Republicans voting for Biden: "+ percent\_republican\_biden\_voters+"\n");

// Prints the percent of voters thinking Trump has done better to manage the economy.

System.***out***.println("Percent of voters thinking Trump has done better to manage the economy: "+ percent\_trump\_economy);

// Prints the percent of voters thinking Trump has done better to manage the civil unrest.

System.***out***.println("Percent of voters thinking Trump has done better to manage the civil unrest: "+ percent\_trump\_civil);

// Prints the percent of voters thinking Trump has done better to manage the coronavirus.

System.***out***.println("Percent of voters thinking Trump has done better to manage the coronavirus: "+ percent\_trump\_coronavirus);

System.***out***.println("Percent of voters thinking Biden has done better to manage the economy: "+ percent\_biden\_economy);

System.***out***.println("Percent of voters thinking Biden has done better to manage the civil unrest: "+ percent\_biden\_civil);

System.***out***.println("Percent of voters thinking Biden has done better to manage the coronavirus: "+ percent\_biden\_coronavirus);

// Prints all required data.

System.*exit*(0);

}

}

