

# Dictionaries Challenge 23: Yes or No Polling App

## Description:

You are responsible for writing a program that will conduct a poll on a yes or no issue. Upon starting the program a user will be prompted for an issue to vote on, the number of voters, and a password to view the poll results. Your program will then conduct the poll. Each time a user votes, your program will ask for the voters full name to verify that they have not yet voted. If the voter has not yet voted, they will be presented with the issue and can vote yes or no. The vote will be recorded. Once the number of voters specified by the user has been reached, the poll will close and a summary will be displayed. If the user enters the correct password a result of each voters name and how they voted will be displayed.

## Step By Step Guide:

- Print a welcome message.
- Get user input for the issue that the voters will be voting on.
- Get user input for the number of voters that will be allowed to vote.
- Get user input for a password to be used to view the polling results.
  
- Define a variable to count the number of yes votes and initialize it to zero.
- Define a variable to count the number of no votes and initialize it to zero.
- Define a blank dictionary that will hold the results of the poll.
  - Each key in the dictionary will be a person's full name
  - The associated value will be their vote.
  
- Simulate the polling process by using a for loop the appropriate number of times.
- Each iteration of the loop:
  - Ask the user to enter their full name.
  - If the user's name has already been registered:
    - Print a message that informs them they cannot vote again.
  - Else, they haven't yet voted:
    - Print a message describing the issue that is to be voted on.
    - Get user input for their choice, yes or no.
      - You should allow users to type 'yes', 'YES', 'Yes', 'y' or 'Y' for yes and similar for no.
      - Depending on the user input, increment the number of yes or no votes by one.
      - If they user entered in another option; record their vote but inform them that their vote was not yes or no and will not influence the poll.
    - Add a new element to your dictionary.
      - The key of this element should be the user's name.
      - The value of this element should be their choice; which regardless of how they entered it should be 'yes', 'no', or their invalid vote.
    - Print a message thanking the user and confirming their vote.

- Once the voting is finished, print a summary that shows the total number of voters.
- List the full names of all the voters.
- Give a final voting result.
- Reprint the issue that was being voted on.
- Use an if/elif/else chain to print an appropriate message if yes won, if no won, and if it was a tie.
- Get user input for a password to see the voting results, vote by vote.
- If the user enters the password correct:
  - Print all full names and their corresponding votes.
- Else:
  - Let the user know the password was not correct.
- Print a message thanking the user for using the program.
- Use at least 2 comments to describe sections of your code.
- “Chunk” your code so that is readable.
- Use appropriate and informative variable names.
- Format your output as below.

### Example Output 1:

Welcome to the Yes or No Issue Polling App

What is the yes or no issue you will be voting on today: Should soda be banned for young children?

What is the number of voters you will allow on the issue: 4

Enter a password for polling results: admin1234

Enter your full name: john smith

Here is our issue: Should soda be banned for young children?

What do you think...yes or no: yes

Thank you John Smith! Your vote of yes has been recorded.

Enter your full name: madison jones

Here is our issue: Should soda be banned for young children?

What do you think...yes or no: YES

Thank you Madison Jones! Your vote of yes has been recorded.

Enter your full name: bryce leaf

Here is our issue: Should soda be banned for young children?

What do you think...yes or no: N

Thank you Bryce Leaf! Your vote of no has been recorded.

Enter your full name: madison jones

Sorry, it seems that someone with that name has already voted.

The following 3 people voted:

John Smith

Madison Jones

Bryce Leaf

On the following issue: Should soda be banned for young children?

Yes wins! 2 votes to 1.

To see the voting results enter the admin password: admin1234

Voter: John Smith

Vote: yes

Voter: Madison Jones

Vote: yes

Voter: Bryce Leaf

Vote: no

Thank you for using the Yes or No Issue Polling App.

### Example Output 2:

Welcome to the Yes or No Issue Polling App

What is the yes or no issue you will be voting on today: Should college tuition be free?

What is the number of voters you will allow on the issue: 3

Enter a password for polling results: freecollege

Enter your full name: rob alman

Here is our issue: Should college tuition be free?

What do you think...yes or no: y

Thank you Rob Alman! Your vote of yes has been recorded.

Enter your full name: tim rean

Here is our issue: Should college tuition be free?

What do you think...yes or no: Who cares...I dont.

That is not a yes or no answer, but okay...

Thank you Tim Rean! Your vote of who cares...i dont. has been recorded.

Enter your full name: mary smith

Here is our issue: Should college tuition be free?

What do you think...yes or no: n

Thank you Mary Smith! Your vote of no has been recorded.

The following 3 people voted:

Rob Alman

Tim Rean

Mary Smith

On the following issue: Should college institution be free?

It was a tie! 1 votes to 1.

To see the voting results enter the admin password: payme

Sorry, that is not the correct password. Goodbye...

Thank you for using the Yes or No Issue Polling App.