Lab 1 Deliverables “Voter Registration Application”

The following program demonstrates a voting registration application, it asks the user if they want to continue and if the user types “yes”, the program continues to as a series of questions like the first name, last name, age, U.S. citizen, state, and even zip code. At any point in the user decides not to continue with the program, the user will type “no” when prompt and the program will then exit. During the program, if the user types in their age and they are under the age of 18 years old, the program will quit and tell the user they are too young to vote. Additionally, if the user is over the age of 120 years, it prompts the user to re-type a valid age to continue. If the user is a U.S. citizen, the program will continue to the next question. If the user is no a U.S. citizen they cannot continue the registration process and the program will exit. When the user inputs a state, the program compares the state abbreviation in a list of states and it the input matches, the program will continue, if the state is not valid, the program will prompt the user to type a valid state. For the zip code, the program will make sure the zip code is a 5 digit zip code, if the input zip code is not 5 digits long, it will prompt the user to type a valid zip code. If the zip code is valid it will continue and finish the registration process which will then print out the user information and prompt the user with the registration card shipping information.

The following is the test table in which I tested each input:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test # & Description | input | Expected Output | Actual results | Pass  (Y/N)? |
| 1. Valid Voter Registration | F: John  L: Doe  Age: 20  U.S. Citizen: yes  State: CA  Zip: 90201 | Thanks for registering to vote. Here is the information we received:  Name (first last): John Doe  Age: 20  U.S. Citizen: Yes  State: CA  Zipcode: 90201  Thanks for trying the Voter Registration Application. Your voter registration card should be shipped within 3 weeks. | As expected | Yes |
| 1. Invalid Age, under 18 years of age | F: John  L: Smith  Age: 17  U.S. Citizen: yes  State: UT  Zip: 84116 | You are not old enough to vote, please try again when you turn 18 years old!  Thanks for trying the Voter Registration Application. | As Expected | Yes |
| 1. Invalid Age, Over 120 years of age | F: Maria  L: Garcia  Age: 121  U.S. Citizen: yes  State: MD  Zip: 20021 | This age is not reasonable, please re-enter an age between 18 and 120:  What is your age?:  \*Program is able to continue if new age is valid\* | As Expected | Yes |
| 1. Not a U.S. Citizen | F: Mary  L: Smith  Age: 22  U.S. Citizen: no  State: AZ  Zip: 21211 | You must be a U.S. Citizen to vote!  Thanks for trying the Voter Registration Application. | As Expected | Yes |
| 1. Invalid State | F: David  L: Smith  Age: 25  U.S. Citizen: yes  State: JAPAN  Zip: 12345 | Please enter a valid State.  What State do you live in?(State Abbreviation 'ALL CAPS'): | As Expected | Yes |
| 1. Invalid Zip Code | F: Joe  L: Dirt  Age: 31  U.S. Citizen: yes  State: NY  Zip: 54 | Invalid zip code!  What is your 5 digit zip code?: | As Expected | Yes |
| 1. Does not want to continue | F: Isaac  L: Olmedo  Age: 24  Continue: no  U.S. Citizen: yes  State: CA  Zip: 96310 | Thanks for trying the Voter Registration Application. | As Expected | Yes |

Successful Program Run (Test #1):

Text

Description automatically generated

Invalid Age, under 18 years of age(Test #2):

Graphical user interface, text

Description automatically generated

Invalid Age, Over 120 years of age(Test #3):

Text

Description automatically generated

Not a U.S. Citizen(Test #4):

Text

Description automatically generated

Invalid State (Test #5):

Text

Description automatically generated

Invalid Zip Code (Test #6):

Text

Description automatically generated

Does not want to continue(Test #7):

Text

Description automatically generated

When I first ran my code using pylint, I was at a 4.00/10, attached is a screenshot of my result:

Text

Description automatically generated

I decided to fix all the lines of code that did not “confirm with UPPER\_CASE” and my code then updated to a 7.45/10. The next screenshot shows these changes:

Text

Description automatically generated

I then fixed my lines by making them shorter, all I did was brought the code to the next line, I also fixed an issue with my else statement, it was missing a break. After these adjustments I got my pylint to read 10.0/10:

Graphical user interface, text, application

Description automatically generated