

Python: Homework 2

How to do the homework? Simply use Repl.it to write your code and copy the URL to the code project and submit it in the provided Google Form.

Age Qualification System

With this assignment, you will be taking user input for someone’s name, age, and a password. You will first take the password the user gave and verify this is correct. For this, use an if-statement to see if the input string is equal to the password. You can set this password to whatever you would like.

Once the user’s password that they entered has been verified, continue onto the next step. You will take their age and perform some checks. We are going to consider 3 criteras. Whether the user can vote, drink, and drive.

- You can drive if you are 16 years or older.
- You can vote if you are 18 years or older.
- You can drink if you are 21 years or older.

You want your project to look like so:

```
>>> Please enter your first name: John
>>> Please enter your last name: Doe
>>> Please enter your age: 17
>>> Please enter the password: password123

Hello John Doe! You are 17 and are allowed to drive.

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>>> Please enter your first name: John
>>> Please enter your last name: Doe
>>> Please enter your age: 17
>>> Please enter the password: password12

Incorrect password.

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>>> Please enter your first name: Tim
>>> Please enter your last name: Simons
>>> Please enter your age: 23
>>> Please enter the password: password123

Hello Tim Simons! You are 23 and are allowed to drive, vote, and drink.
```

Remove Names from Array

You are given the names: ["Jacob", "James", "Anthony", "Megan", "Anna", "John", "Nathan", "Isabelle"]. You can copy the array by clicking [here](#).

The objective of this is to sort these names alphabetically and then removes the last three elements and puts them into a new array.

```
Original Array: ["Jacob", "James", "Anthony", "Megan", "Anna", "John", "
↪ Nathan", "Isabelle"]

New Array: ["Anna", "Anthony", "Isabelle", "Jacob", "James"]
Removed Names: ["Nathan", "Megan", "John"]
```

Hint: Use the `.pop()` method

Find the Mistakes

Your friend wrote some code but has asked you for help when it won't run properly. Your task is to find out why the code is not working and fix the issues to make it run properly!

Once again, since this document does not support neatly copying code, you can find a copyable version of this code by clicking [here](#).

```
color1 = input("Enter the first color: ")
color2 = input("Enter the second color: ")
color3 = input("Enter the third color: ")
color4 = input("Enter the fourth color: ")

colors = ()
colors.append(color1)
colors.append(color2)
colors.append(color3)
colors.append(color4)

print(colors.length)
if colors.length = 4:
    colors.append("Black")
    colors.pop()

if color[0] == "Red":
    print("The first color you thought of was red!")
else if color[0] == "Green":
    print("Eww, your first choice was green?!")
```