Batch #22 / iOS Class

Remote Learning Assignment - Week 3

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1. What is a `closure`? How to execute a closure?

2. Please declare a closure whose input type is Int, output type is Bool. The functionality of this closure is to verify if the input is odd or not. Return true if it's odd and vice versa.

3. Please complete the following function that prints a triangle made of asterisks.

```
func printTriangle(layers: Int) {
    // TODO: print a triangle
}
```

For example, here's what the output of `printTriangle(layers: 5)` should be:

```
*
**
***
****
*****
```

4. Please implement the UI design below in a new app. This is a simple log-in and sign-up page.

- Only consider iPhone 14 Pro screen size when implementing this app.
- Here're the UI requirements (measured in point.)
    - **AppWorks School** label : top 80 to status bar, horizontally center in super view. Font size 40.0
    - **Segmented Control** : top 70 to AppWorks label, width 150, horizontally center in super view.
    - **Gray View** : width 255, height 125, top 40 to segmented control, horizontally center in super view.
    - **Button :** width 235, height: 30, top 50 to gray view, horizontally center in super view.

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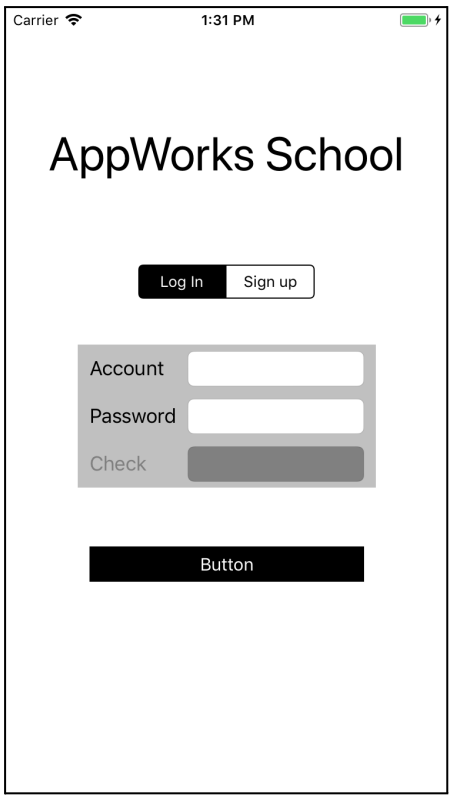
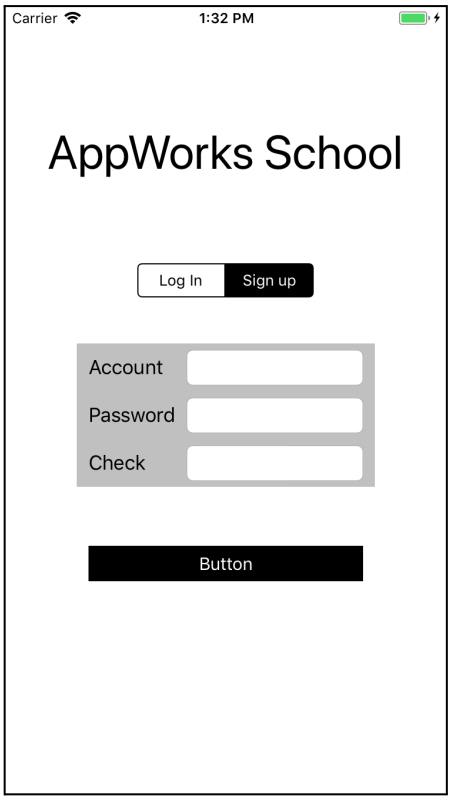


Log in



Sign up

- Functional requirements:
    - When users switch to the login page through segmented control, the check label and its text field should be disabled and their colors should be updated.
    - When users touch the button, the app should execute log-in or sign-up flow, depending which segment is selected.
    - If there is no valid text, including empty input or wrong input, you should show a corresponding alert to users.
    - In the log in scenario, for now only the info below is acceptable.
      Account: `appworks_school` / Password: `1234`
    - In the sign up scenario, the account is always valid except for empty input. The password text must be equal to the check text, otherwise it's invalid.

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