KEYWORDS

DEBUGGING

- breakpoint
- UI debugging
- Instruments
- Console application

DEPENDENCY

- Cocoapods
 - o pod init
 - o pod install
 - o pod update
 - o use .xcworkspace
- Carthage
- Swift package manager

How To's

AutoLayout

• you need to practice it!!!;)

Extras

UIScrollView

- add UIScrollView to UIViewController in Stroyboard
- use PIN tool, add top, leading, trailing, bottom constraints with constant 0
- add UIView inside UIScrollView
- use PIN tool, add top, leading, trailing, bottom constraints with constant 0
- select both UIScrollView and UIView
- use PIN tool, add equal widths
- start adding your UI elements to UIView, you need to connect your UI elements with constraints from top to bottom, in order
 - for UIScrollView to calculate it intrinsic content size.
- scroll view will only scroll if the size of its content is greater then the size of scroll view itself
- use my example and run it on iPhone SE

GCD

Grand Central Dispatch

```
DispatchQueue.main.asyncAfter(deadline: .now() + 2) {
    // Your code with delay
}
```

UINavigationController

- will cover on next lecture but here are some tips if you are impatient
- UINavigationController is used for navigating between UIViewControllers and keeping them on stack, back and forth:)
- select your Login UIViewController from Storyboard
- Editor -> Embed In -> Navigation Controller
- create Register button action handler for event TouchUpInside
- open Login UIViewController subclass from code, go to Signup button action handler
- use this function to navigato to your new Registration UIViewController

```
navigationController?.pushViewController(<#T##viewController:
UIViewController##UIViewController#>, animated: <#T##Bool#>)
```

- as you can see, this function takes a UIViewController subclass as a first parameter
- so you will need to load your new Registration UIViewController from Storyboard using

```
let bundle = Bundle.main
    let storyboard = UIStoryboard(name: "Main", bundle: bundle)
    let registrationViewController =
storyboard.instantiateViewController(withIdentifier:
"IdentifierThatYouNeedToSetUpInStoryboard")
```

- you can setup UIViewController identifier inside Storyboard
- the same location where you add your custom subclass
- under section Identity

Keyboard Events