Print (“Something else”)
}

Structs are templates - contains two fundamental things
Attributes hair color, height, and birthday (let attributes)
Actions change hair, brush teeth (var actions)
Varibel in App
File>new>project>IOS>App>give the product a name First app, team none, organization identity (domain name put anything for now JacksonGuentherSwift1), interface - swift, testing to none and storage
(Do not click source control box)

Xcode Variables - Var can be changed in the future and let cannot
Methods - string
Logic - print
Single = statement, double == question != not equal to
Change “” to Inch marks on xcode

Import UIKit

Var greeting = “hello, playground”

Greeting = “hole”

let birthMonth = 12

Var congrats = “I am happy for you, your birth month is ” +String(birthMonth)

let cuurentMonth = 1

let countdown + birthMonth - currentMonth

If countodwn < 5 {
print(“your birthday is coming up!”)
} else }
a strut is called an attribute

2/4 - in class coding

Import UIKit

Struct Contentview: View {

@state var numberofClicks = 900
Var body: some View {

Var greeting = “hello, playground”

Struct person { let birthMonth: Int
var firstName: String
var numberOfLungs = 2

Func sayHello() { print(“good morning” + self.firstName) print(“good to see you”)
}
MUTATING Func removeLungs() {
self.numberofLungs = self.numberoflungs - 1
Print(self.Firstname + “ “

}

Var Artie = Person(birthMonth: 12, firstname: “Artie”)
Var ray = Person(birthMonth 6, firstName: “Raymond”, numberOf Lungs:1)
Artie.firstname = “Kevin”

print(artie.birthmonth) artie.firstName
Artie.sayHello()
Ray.sayHello()

Ray.removeLung(1)

Practice
Struct contentView {
Var body: some View {
Text(“hello there!”)
.fontweight(.bold)

@state var numberofclicks = 90
Button(action: () -> void

2/6 - in class coding - struct/list
Import UIKit

Struct GroceryItem {
Var groceryItem:string
Var groceryEmoji:string
Var groceryAisle:string

```
Struct Contentview: View {
@state var grocerylist = [GroceryItem(groceryName: “Bacon”, groceryEmoji:” “ ,
groceryAisle: “Back fridge area”), Grocery Item: “Eggs” , groceryEmoji: “ “ , groceryItem: “Dairy”),
GroceryItem(groceryName: “eggs” , groceryEmoji: “ “ ,
groceryAisle: “5B” )
]

Var body: some View {
List(0..<groceryLists.count, id: \.self)  { Index in Vstack

Var body: some View {
List(0..<grocrylist.count, id: \.self { index in
text(grocryList[index])

Lists {
Text(“bacon”)
Text(“eggs”)
text(“cofee”)
text(“milk”)
    }
  }
}

#Preview {
ContentView()
}
```

2/11 - 2nd page of code from 2/9

```
Import UI

Struct  detailedView: View
@state var selectedindex = 1
Var body: some View {

text(“       “)

navigationView {
}  like an a tag (big)

NavigatioLink(destination:detailview(selectedIndex: Index))
```

First page

```
By making this code global ( you can use selectindex to pass on info
@state var grocerylist = [GroceryItem(groceryName: “Bacon”, groceryEmoji:” “ ,
groceryAisle: “Back fridge area”), Grocery Item: “Eggs” , groceryEmoji: “ “ , groceryItem: “Dairy”),
```

GroceryItem(groceryName: “eggs” , groceryEmoji: “ “ ,
groceryAisle: “5B”)
]

2/13 -

(first page code) how to design your apps logo on xcode

```
struct ContentView:
View var body: some View
{ NavigationView
 { List(0..<groceryList. count, id: \.self) { index in NavigationLink(dest athcs:detailView（selectedIndex: index））
｛ VStack
 { HStack
 { Text (groceryList[index] groceryEmoji)
 if groceryList[index].inCart == false {
Text (groceryList[index]-groceryName)
• fontWeight(• semibold)
 } else {
 Text (groceryList[index]-groceryName)
• foregroundColor (Color.gray)
 Text (groceryList[index]-groceryAisle)
 • fontWeight(. light)
 • foregroundColor
      }
   }
}
```

Second page code

```
Strut detailedView: View {
@state var selectIndex = 1
Var body: some View {
VStack {
Text(grocoeryList
[slectedIndex].groceryName)
.font(.LargeTitle)
.fontweight(.black)
Text(groceryList
[selectedIndex]. groceryAisle)
.fontweight (.ultraLight)

.foregorundColor(Color
.white)
.shadow
```

2/18 - circle

2/20 - make a file on your phone. Use a database in your app. User defaults (built in)
UserDefaults.standard.integer(forKey: “name”)

I send a green text message but delete

2/25

struet GroceryItem: Codable {
Func saveGroceryItem(gorceryListToBeSaved : [groceryItem]) {
If let encoded = try? JSONEncoder().encode(groceryListToBeSaved) {
UserDefaults.standard .set(Encoded, Forkey: “savedGroceryList”)
}
}

Detailed view below

```
import SwiftUI
struct detail view: View {
@State var selectedIndex = 1
Binding var groceryList:
Var body: some View {8
VStack(alignment: • leading) {
ZStack {
Image(groceryList[selectedIndex].groceryImage)
VStack {
Text(groceryList[selectedIndex].groceryName)
• font(. largeTitle)
• fontWeight(black)
• foregroundColor (Color white)
•shadow(color: •black, radius: 5, x: 0, y: 5)
Button (action: {
groceryList[selectedIndex].inCart = false {
groceryListIselectedIndex]. inCart = true
}
else {
groceryList[selectedIndex].inCart = false
Label: 1
if groceryList[selectedIndex]. inCart = false {
Text("Put in Cart")
}
else {
Text ("Remove from Cart")
```

Other view below

struct
GroceryItem

}

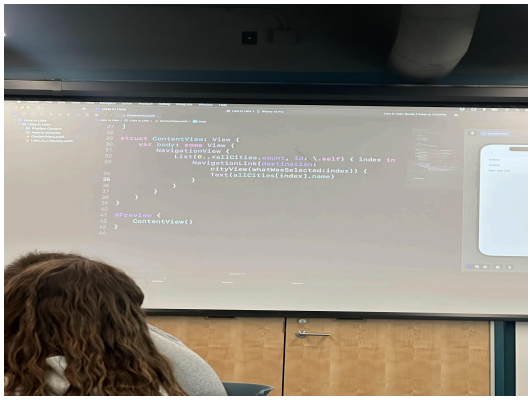
• First App 1 0 iPhone 16 Pro
Si detailView.swift

Build Succeeded | 2/18/25 at 11:59 AM

```
struct ContentView: View {
@State var groceryList = [
GroceryItem(groceryName: "Bacon" fridge area", groceryImage:
groceryEmoji: "bacon" ),
groceryAisle: "Back
GroceryItem(groceryName: "Eggs", groceryEmoji:
"Dairy", groceryImage: "eggs", inCart: true),
groceryAisle:
GroceryItem(groceryName: "Coffee",
]
"5b", grocery Image: "coffee")
groceryEmoji: "®", groceryAisle:

var body: some View {
NavigationView {
List(0..«groceryList.count, id: I.self) & index in
NavigationLink(destination:detailView(selectedIndex: index,
groceryList: $)) {
VStack {
HStack {
Text (groceryList[index].groceryEmoji)
if
groceryList[index]. inCart = false {
Text (groceryList[index].groceryName)
```

3/11 - **Attractions is used for “stuff inside stuff “/tab bars (bookmarks apple)**

```
Struct Attraction {
Var name: string
Var type: string
}

StructCity {
Var name: String
Var attraction: [Attraction]
}

Var allCities = [
City(name: “Oxford”, attractions:
[Attraction(name: “miami university”, type:
“University” ),
```

 CityView (not content or detail)

@state var CitySelection = 0
@state var attractionSelection = 0
Var body: some View {
Vstack

*place other photo

3/18

```swift
import SwiftUI
struct Meal: Identifiable, Codable {
    var id = UUID()
    var name: String
    var category: String
    var image: String
    var description: String
    var isFavorite: Bool
}
func loadMeals() -> [Meal] {
    if let savedData = UserDefaults.standard.data(forKey: "savedMeals") {
        if let decoded = try? JSONDecoder().decode([Meal].self, from: savedData) {
            return decoded
        }
    }
    return []
}
func saveMeals(mealsToBeSaved: [Meal]) {
    if let encoded = try? JSONEncoder().encode(mealsToBeSaved) {
        UserDefaults.standard.set(encoded, forKey: "savedMeals")
    }
}
struct ContentView: View {
    @State var meals = loadMeals()
    @State private var newMealName = ""
    @State private var newMealCategory = ""
    @State private var newMealDescription = ""
    @State private var showAddMealView = false
```

```
@State private var searchText = ""

var filteredMeals: [Meal] {
    if searchText.isEmpty {
        return meals
    } else {
        return meals.filter { $0.name.localizedCaseInsensitiveContains(searchText) }
    }
}

var body: some View {
    NavigationView {
        VStack {
            Text("Meal Planner")
                .font(.largeTitle)
                .bold()
                .padding()

            TextField("Search Meals", text: $searchText)
                .textFieldStyle(RoundedBorderTextFieldStyle())
                .padding()

            List(filteredMeals.indices, id: \.self) { index in
                NavigationLink(destination: SwiftUIView(selectedMeal: $meals[index])) {
                    HStack {
                        Image(meals[index].image)
                            .resizable()
                            .scaledToFit()
                            .frame(width: 90, height: 100)
                            .cornerRadius(10)

                        VStack(alignment: .leading) {
                            Text(meals[index].name)
                                .font(.title2)
                                .fontWeight(.semibold)

                            Text(meals[index].category)
                                .font(.headline)
                                .fontWeight(.light)
                                .foregroundColor(Color.gray)
                        }
                    }
                }
            }
            .navigationTitle("Meal Planner")

            Button("Add Meal") {
                showAddMealView.toggle()
            }
            .padding()
            .background(Color.blue)
            .foregroundColor(.white)
            .cornerRadius(10)
            .sheet(isPresented: $showAddMealView) {
```

```
                AddMealView(meals: $meals)
            }
        }
    }
  }
}
struct AddMealView: View {
  @Binding var meals: [Meal]
  @State private var name = ""
  @State private var category = ""
  @State private var description = ""
  @Environment(\.presentationMode) var presentationMode

  var body: some View {
    NavigationView {
      Form {
        Section(header: Text("Meal Details")) {
          TextField("Meal Name", text: $name)
          TextField("Category", text: $category)
          TextField("Description", text: $description)
        }
      }
      .navigationBarItems(trailing: Button("Save") {
        let newMeal = Meal(name: name, category: category, image: "default", description: description, isFavorite:
false)
        meals.append(newMeal)
        saveMeals(mealsToBeSaved: meals)
        presentationMode.wrappedValue.dismiss()
      })
    }
  }
}
```

4/15

ENROLL IN APPLE DEVE

Request permission for notifications by running

Import UserNotifications

Var hasPermissionForAuthorization = false

Let userNotificationCenter = UNUserNotificationCenter.current()

func requestnotificationAuthorization() {
Let authOptions =
UNAuthorizationOptions.init(arrayLiteral: .Alert,
.badge, .)
Usernotificationcenter.requestAuthorization(options: authOptions) {

```
(sucess, error) in
If let error = error {
Has PermissionforAuthorization = false
Print (“there was an error”)
} else {
hasPermissionForAuthorization = true
}
  }
   }

Func createNotification() {
let notificationContent = UNMutableNotificationContent()
notificationContent. title = "End of Class"
notifica
tionContent.body = "IMS 351 ends at 1pm"
let trigger = UNTimeIntervalNotificationTrigger(timeInterval:
TimeInterval(10), repeats: false)

let identifier = "My Time Interval Notification"

let notificationQuery = UNNotificationRequest(identifier:
identifier, content: notificationContent, trigger: trigger)

userNotificationCenter.add (notificationQuery) { (error) in
if let error = error {
print("error in your request")
   }
 }
```

Check photos for lines 40-60