Instruction: 100 Days of SwiftUI – Day 16 – Hacking with Swift https://www.hackingwithswift.com/100/swiftui/17

Project Name: WeSplit

• Language: Swift

• User interface: SwiftUI

**WeSplit** acts like a **check-sharing app**, in which users can enter necessary information (like the number of people, the number of dishes, etc.) to calculate the shared tips accordingly.

## Theory Part:

- Creating a form:
  - Forms = scrolling lists of static controls (text, img), user interactive controls (buttons,...)
  - Max 10 lines of text inside a Form {...}
    - Workaround: by using Group{...} to separate the groups of text

- Or use Section{...} for viz purposes

- Adding a navigation bar:
  - NavigationView {....} // put it right at the place we want the navigation bar
  - .navigationBarTitle("title", displayMode: .inline) // displayMode is optional
- Modifying program state:
  - ContentView is a struct that conforms the protocol View

- Struct is immutable ⇒ have to use @State right before the variables to make the variables mutable
  - Apple recommends adding "private" to such variables

```
struct ContentView: View {
    @State private var tapCount = 0

    var body: some View {
        Button("Tap Count \((tapCount)")) {
            self.tapCount += 1
        }
    }
}
```

- Binding state:
  - 2-way binding: to be read + written ⇒ use \$
  - Note: TextField(...., text: \$var) // use to read user input (string only)

```
TextField("Your name: ", text : $name)

Text("Hello, \(name\)")
```

- This code is inside the var body
- ForEach

## Requirements:

- Users can enter
  - The check amount,
  - The number of people in their group,

- The tip percentage.
- The tip calculator has to compute the value each person will be responsible
  - Tip Amount = checkAmount \* (tipPercent / 100)
  - Total Amount = (checkAmount + Tip Amount)
  - Each person = Total Amount / numPeople
- Display the total amount
- Display the amount per person with 2 decimal places (Text("\$\(totalPerPerson, specifier: "%.2f")")