Day 16:

ContentView is the struct that gets recreated by default in a new SwiftUI application. ContentView conforms to View Protocol. View protocol required a body parameter that is of type **some View**

Any element can contain a maximum upto 10 children. For example, a Form view can hold 10 children elements. Due to this limitation, we can wrap the children into Group/Section view in order to hold more data.

ContentView_Previews is used to create a Preview on the canvas and is not part of the final xcode build.

NavigationView can be used to add a navigation bar.

```
struct ContentView: View {
  var body: some View {
      NavigationView {
           Form {
               Section {
                   Text("Hello, world!")
           .navigationTitle("SwiftUI")
           .navigationBarTitleDisplayMode(.inline)
       }
   }
}
struct ContentView Previews: PreviewProvider {
   static var previews: some View {
      ContentView()
   }
}
```

State variables can be used inside the code by mentioning the @State keyword. This is because the ContentView is of type Struct and hence the variables cannot be updated unless they are marked with @State. This make Swift UI store these state variables in a different location.

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

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

We can similarly use state variables for textfields to store the value that gets entered into the field. We add \$ before the variable name denoting that two way binding is in place i.e, value is updated and also returned

Day 17:

Reading text from the user with TextField

When using a value of different type in a textfield or text elements, you need to use the value property along with format property to mention the format of the value.

```
var currencyCode: String {
       if #available(iOS 16, *) {
           return Locale.current.currency?.identifier ?? "USD"
       } else {
           return Locale.current.currencyCode ?? "USD"
       }
   }
   var body: some View {
       Form {
           Section {
               TextField("Amount", value: $checkAmount, format: .currency(code:
currencyCode))
                   .keyboardType(.decimalPad)
           }
           Section {
               Text(checkAmount, format: .currency(code: currencyCode))
       }
   }
```

Creating pickers in a form

Adding a segment control for tip percentage

```
Section {
    Picker("Tip percentage", selection: $tipPercentage) {
        ForEach(tipPercentages, id: \.self) {
            Text($0, format: .percent)
        }
    }
    .pickerStyle(.segmented)
} header: {
    Text("How much tip do you want to leave?")
}
```

Hiding the keyboard

In order to achieve this we have to first add a @FocusState variable to track and update the focus state of the textfield.

```
@FocusState private var amountIsFocused: Bool
```

Add this focusstate to textfield by using the focused modifier

```
TextField("Amount", value: $checkAmount, format: .currency(code: currencyCode))
   .keyboardType(.decimalPad)
   .focused($amountIsFocused)
```

Then add a toolbar item to the NavigationView with a done button to toggle this FocusState to false.