

SwiftUI를 이용한 iOS App. 개발

Xcode Version 확인

Xcode 실행후에 초기 선택 메뉴에서 확인

Swift Version 확인

Terminal 실행후

xcrun swift --version 으로 확인

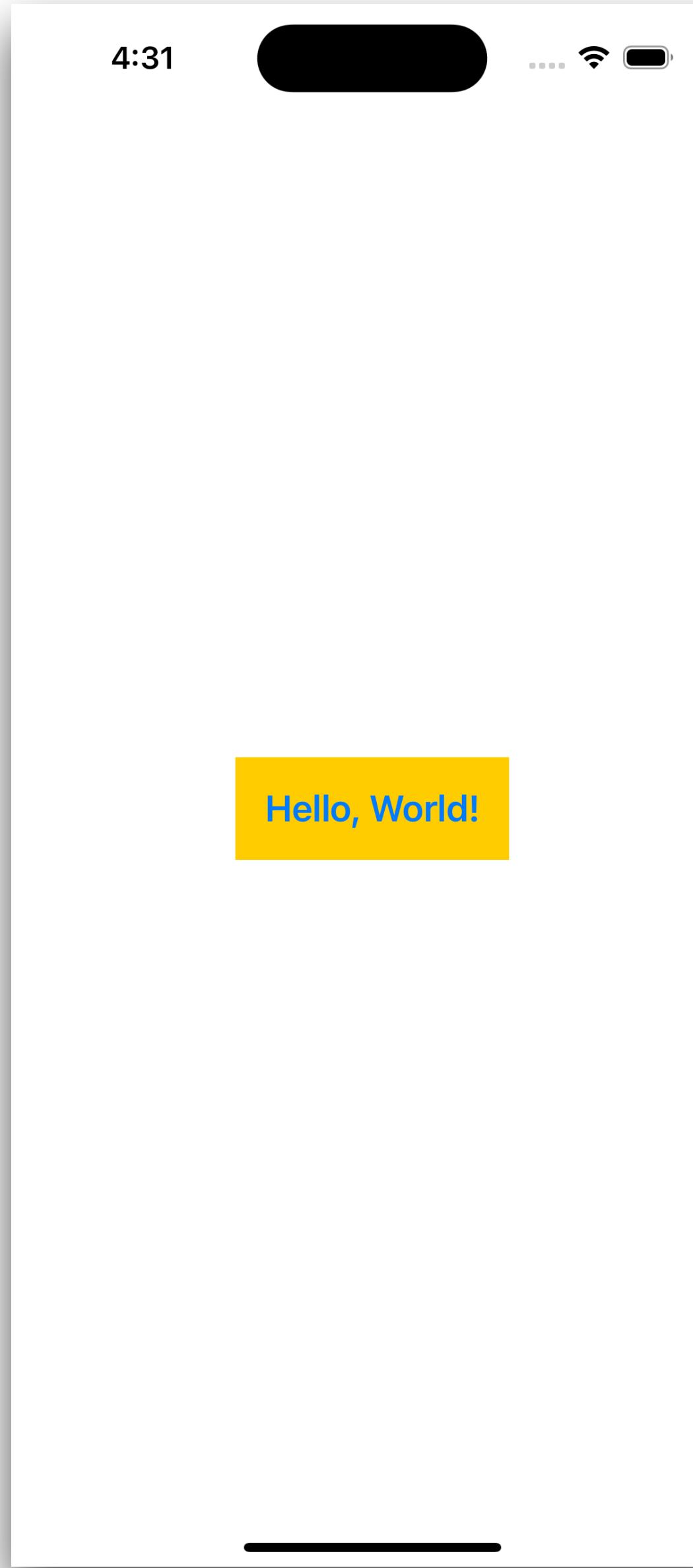
개발자 등록하기

developer.apple.com에서 Apple ID를 만들고 개발자 프로그램에 가입.

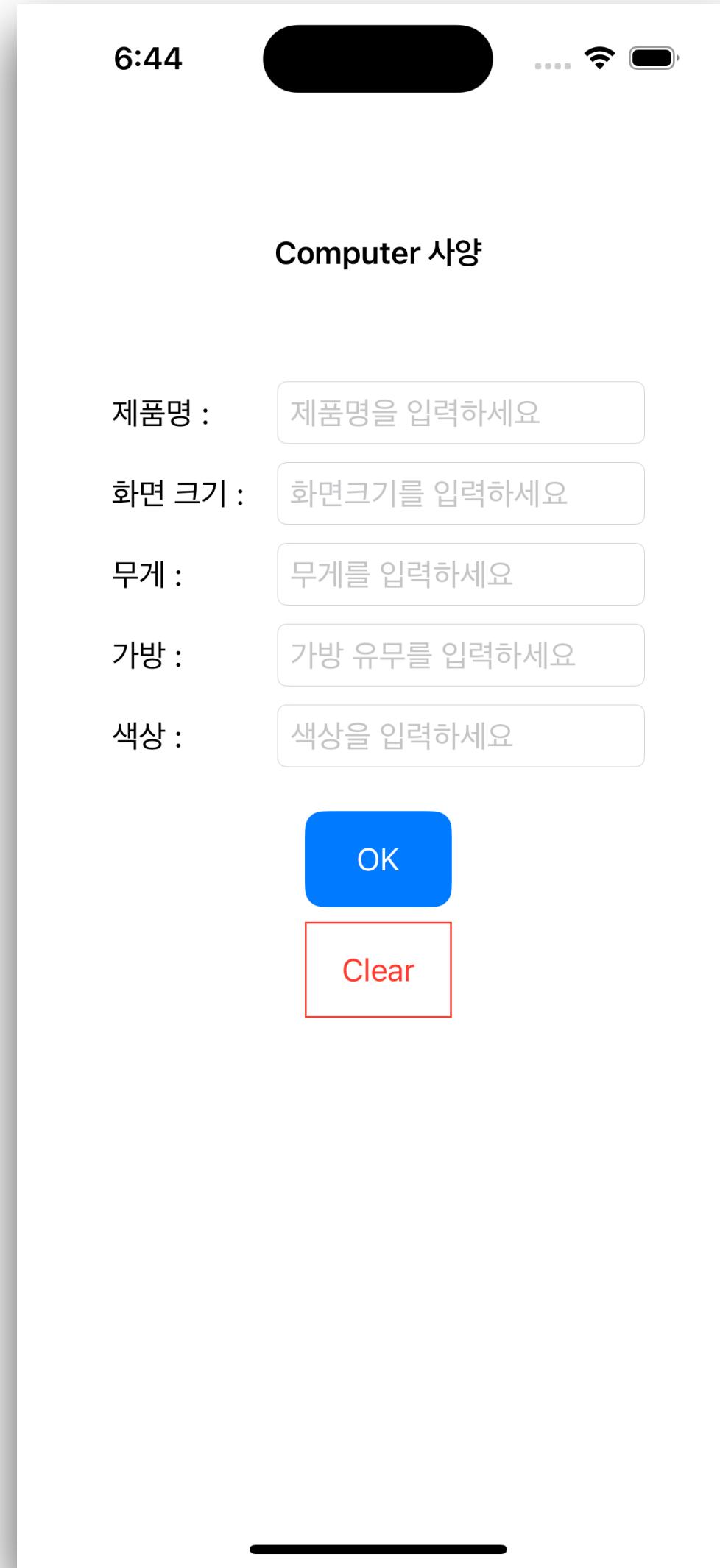
Xcode 설치

App Store에서 Xcode로 검색후 설치

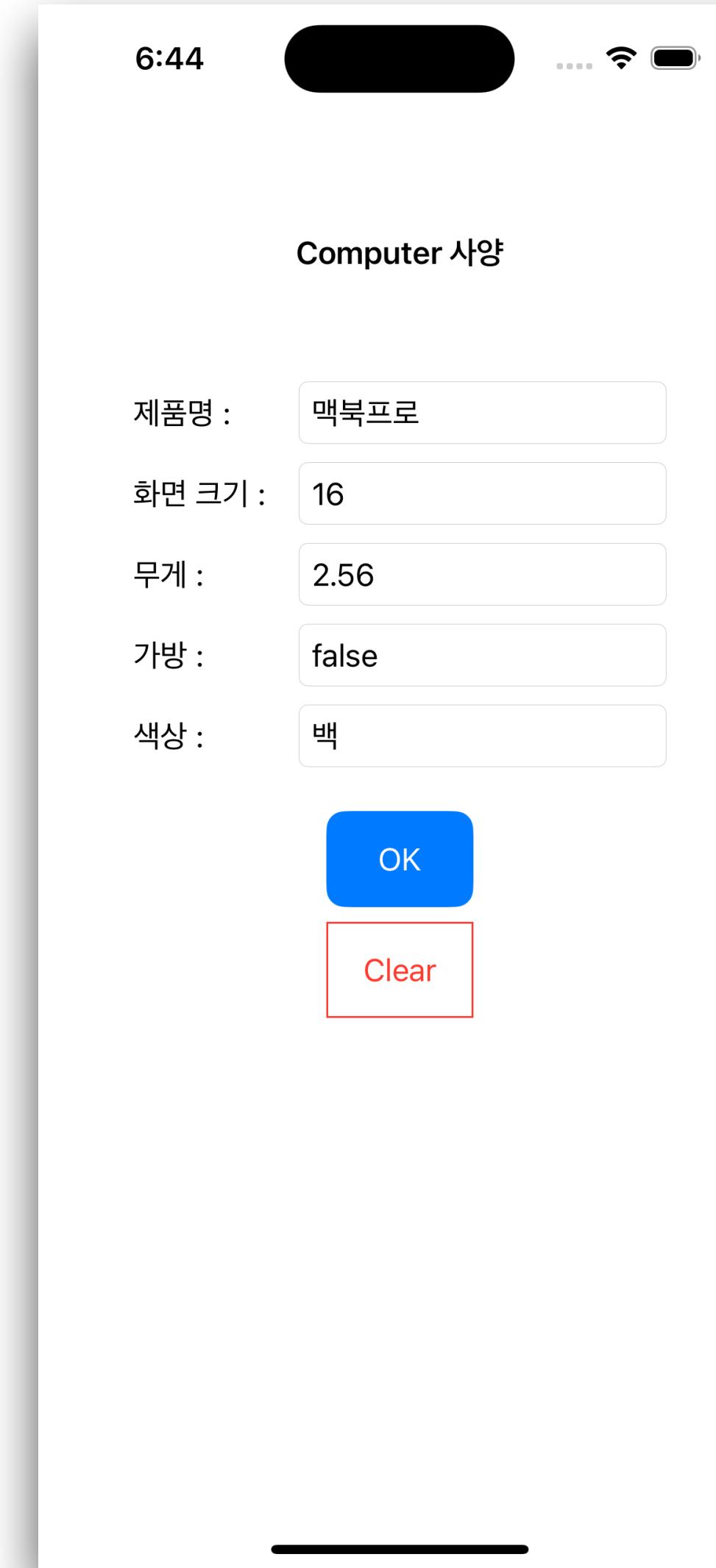
01. Hello World! 출력하기



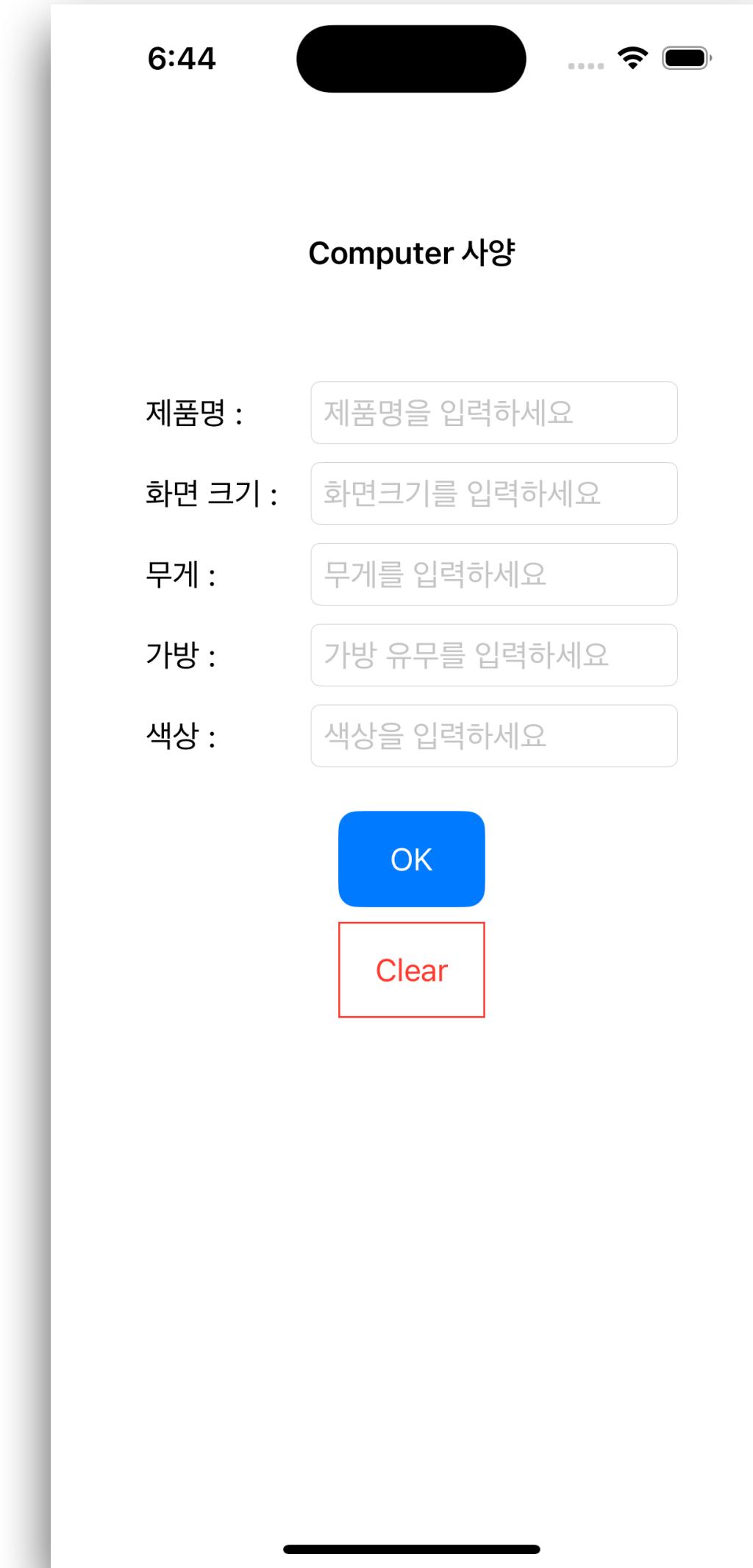
Computer 사양 출력하기



초기화면

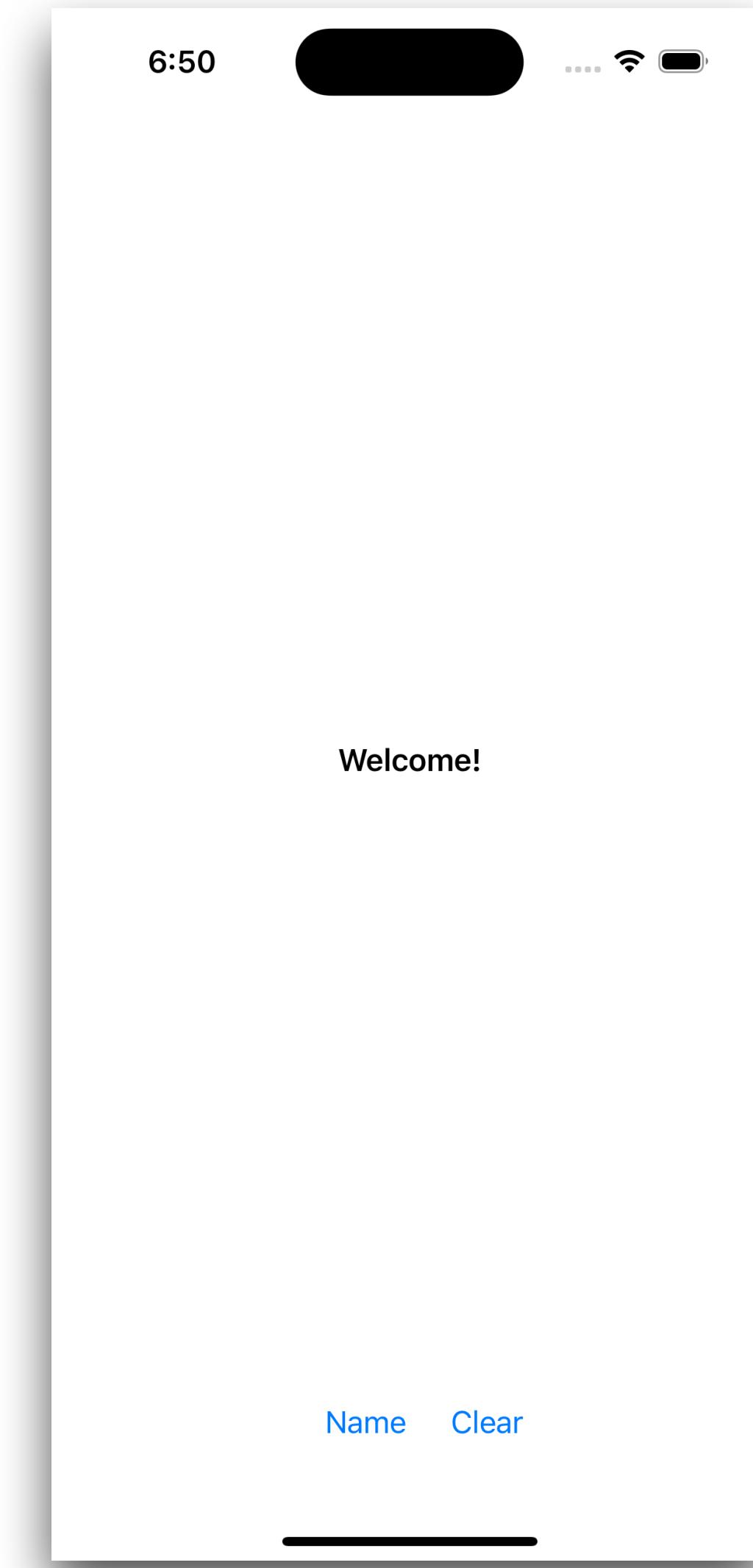
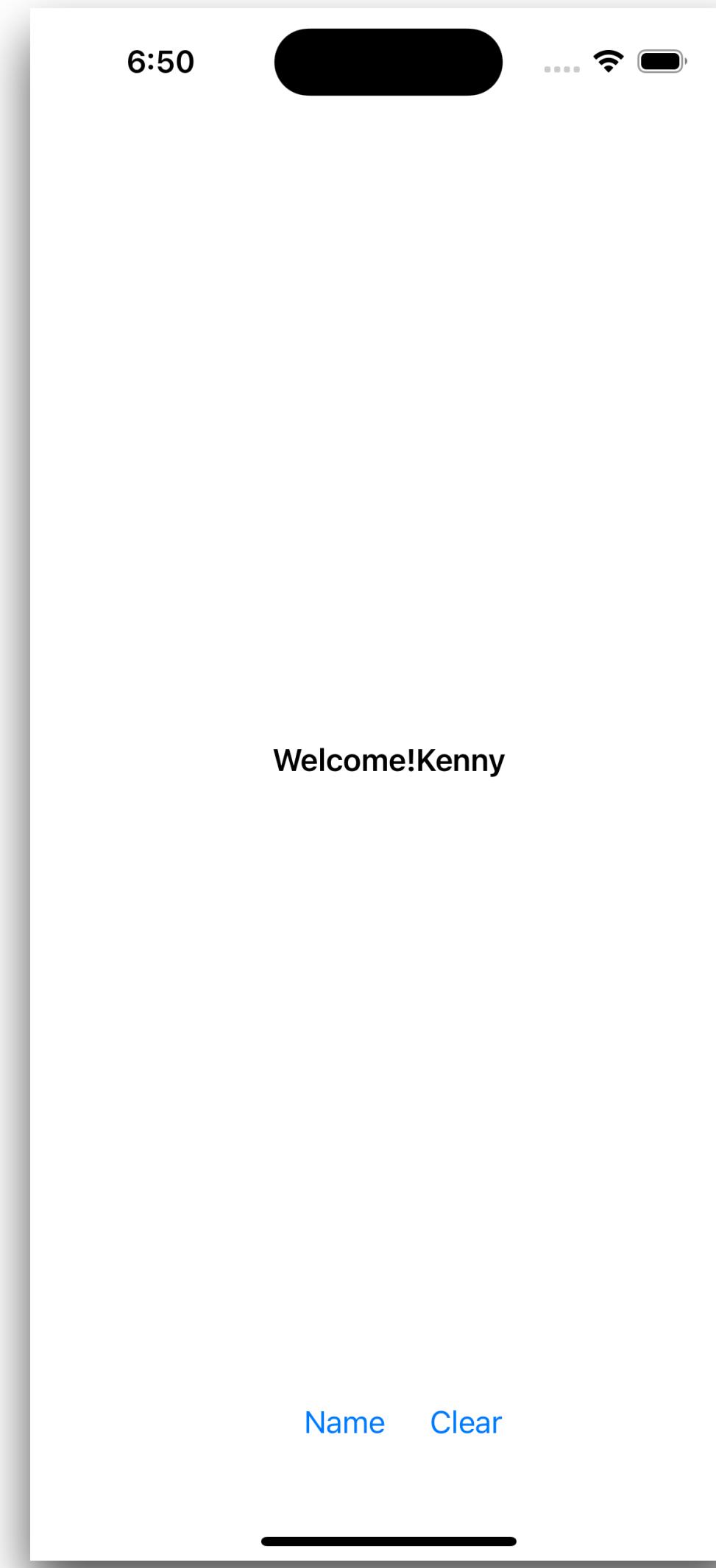
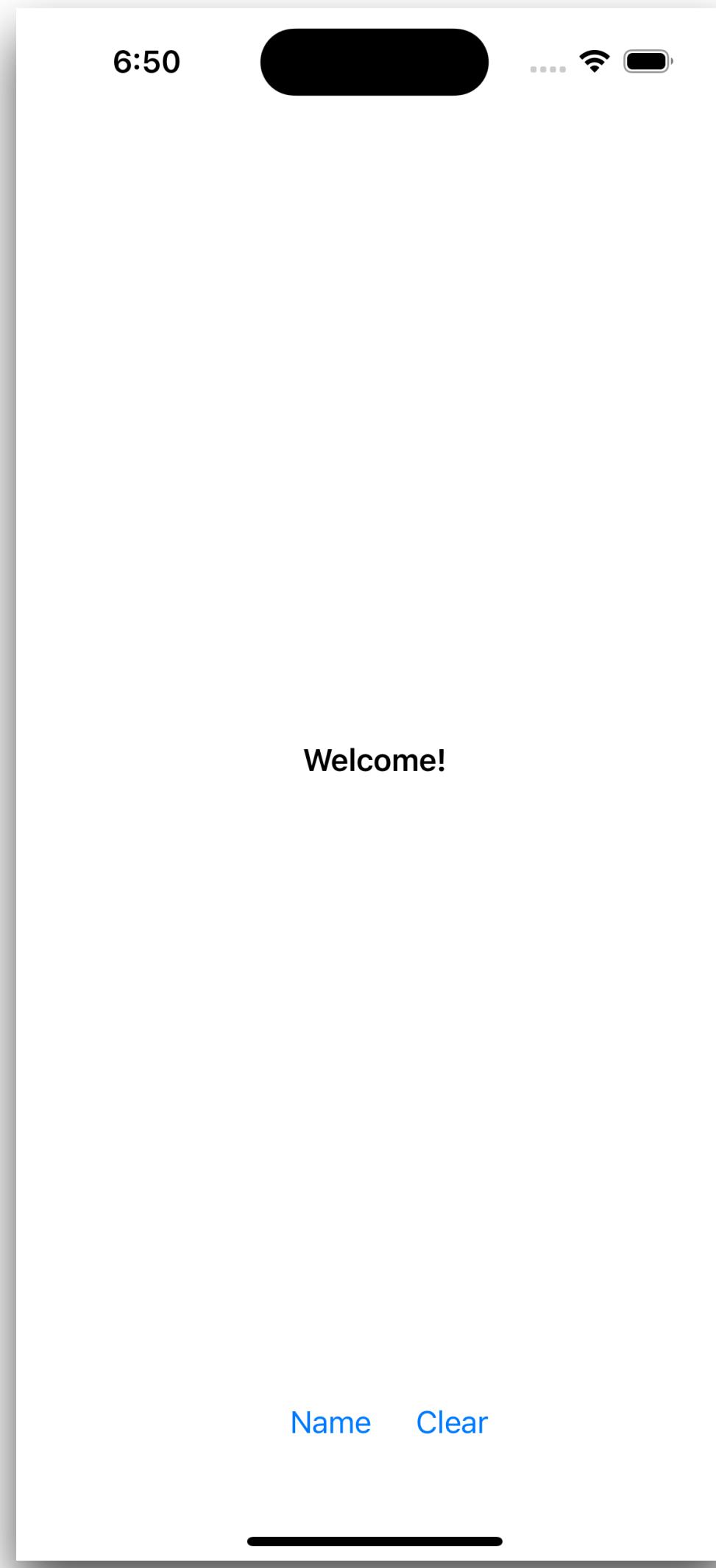


OK 버튼



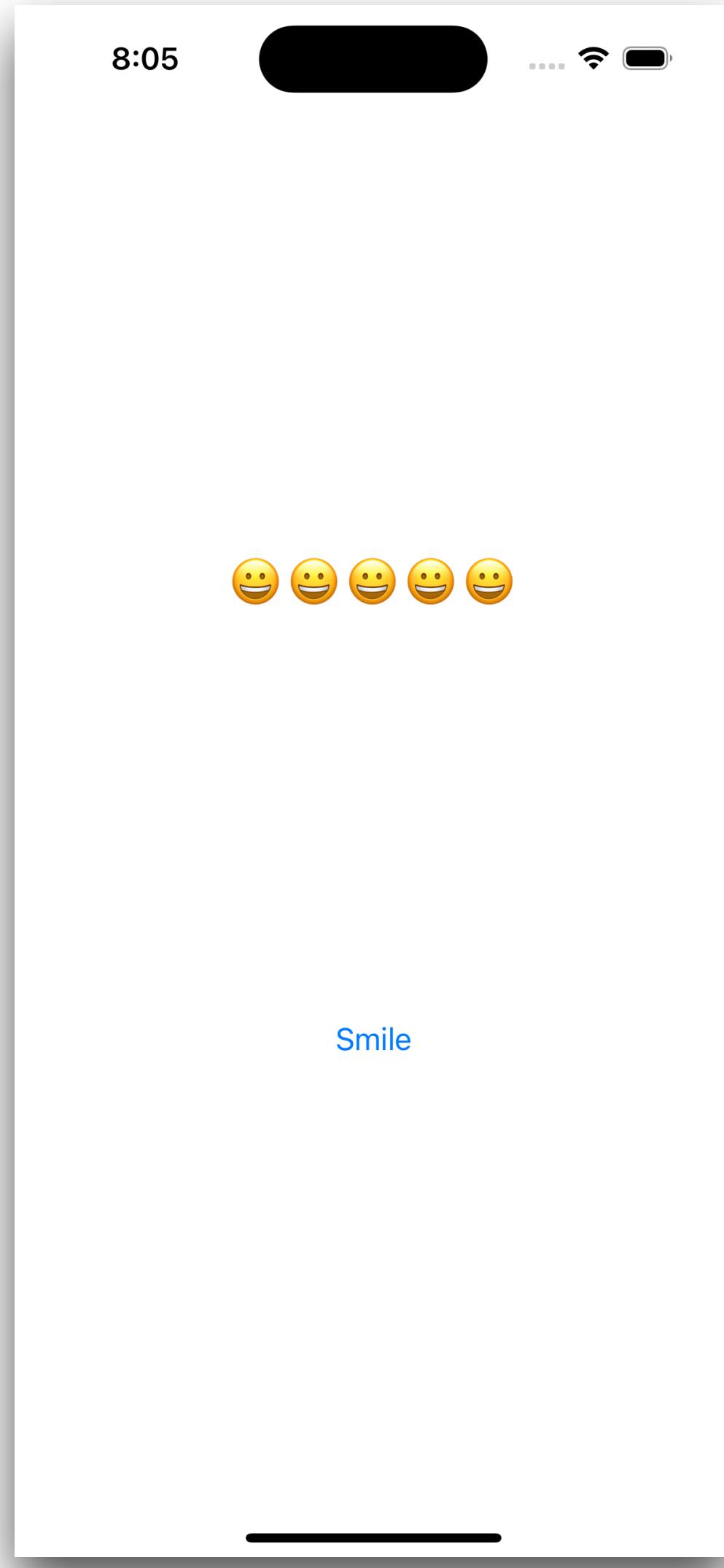
Clear 버튼

02. Button을 Click하여 Message뒤에 본인 이름 이어서 출력하기



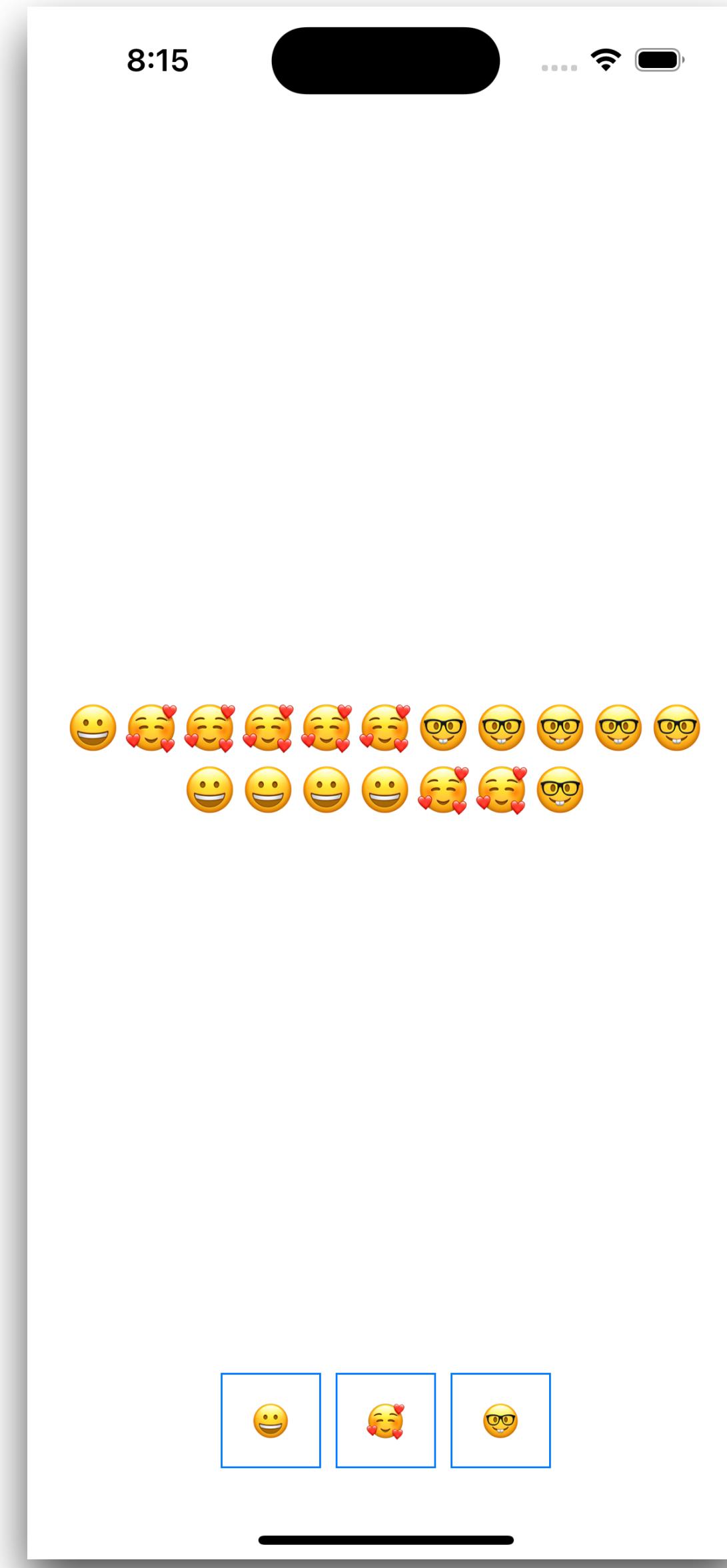
ButtonName

02. Button을 Click하여 Smile 모양 계속 붙이기



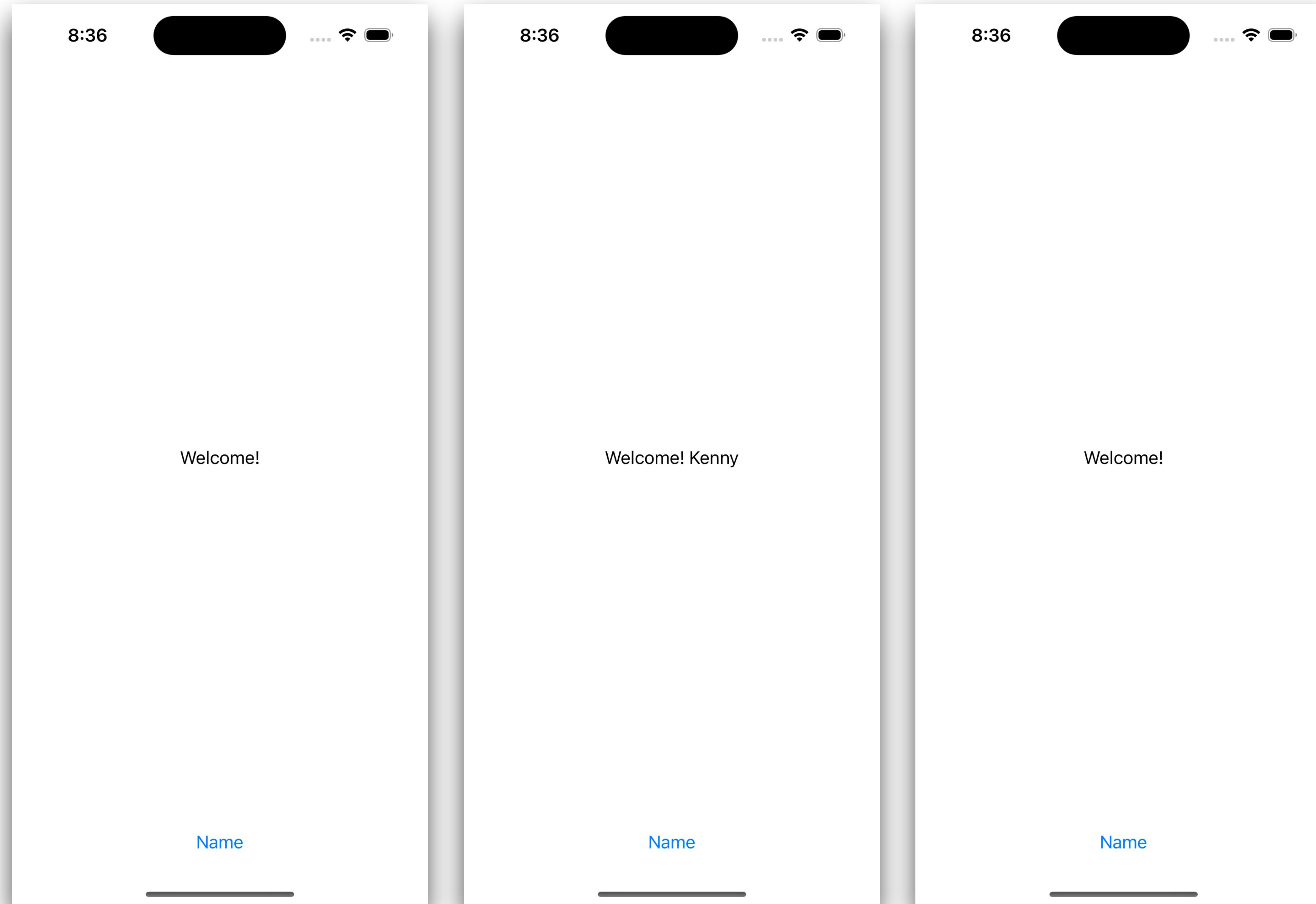
ButtonName2

02. Button을 Click하여 Smile 모양 계속 붙이기

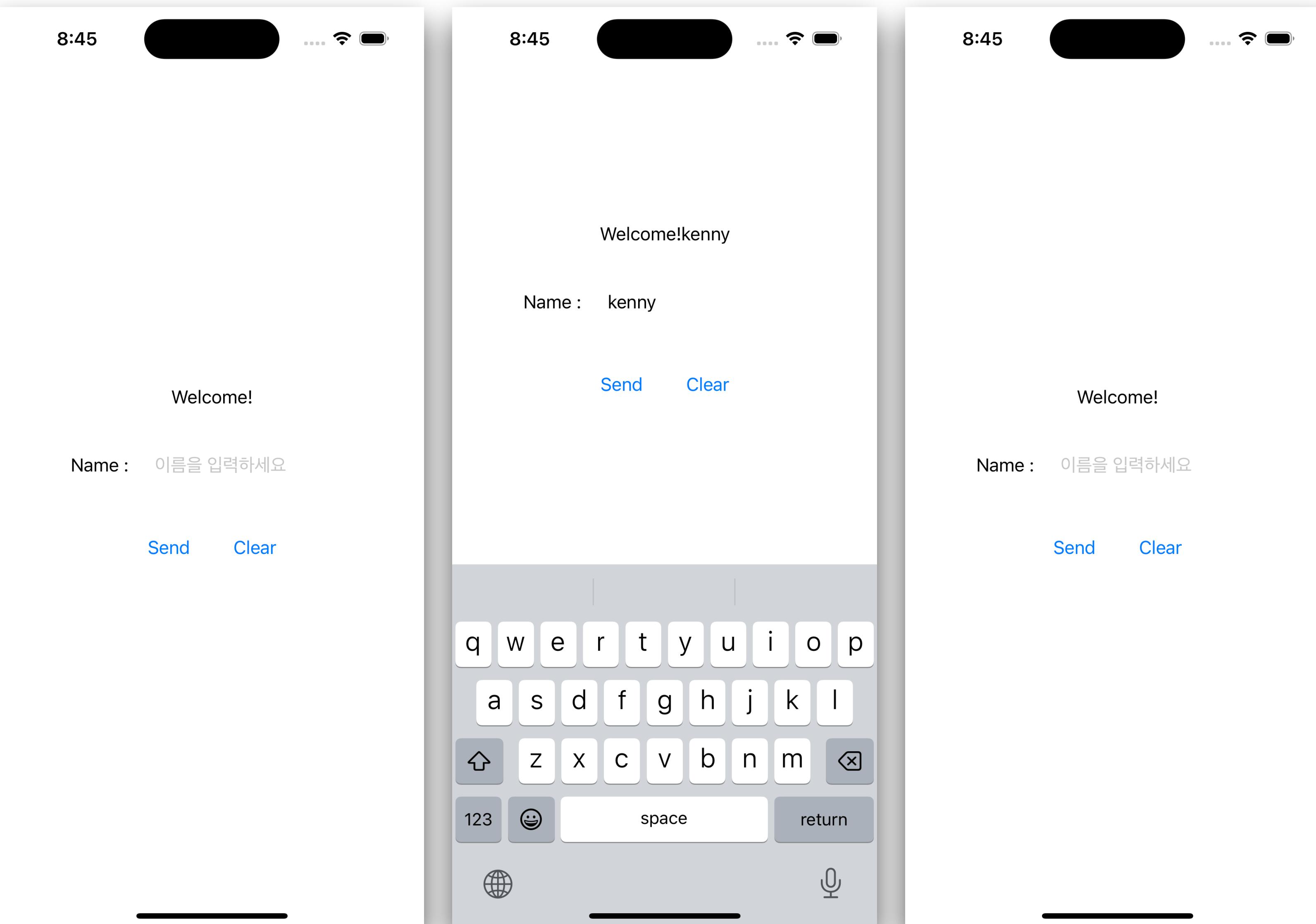


ButtonName3

Quiz 01 .Button을 Click면 두개의 Text를 번갈아 가면서 보이기



03. Data를 입력 받아 화면에 출력하기



TextName

Quiz 02. 두개의 정수 숫자를 입력 받아 덧셈, 뺄셈, 곱셈, 나눗셈 계산하기

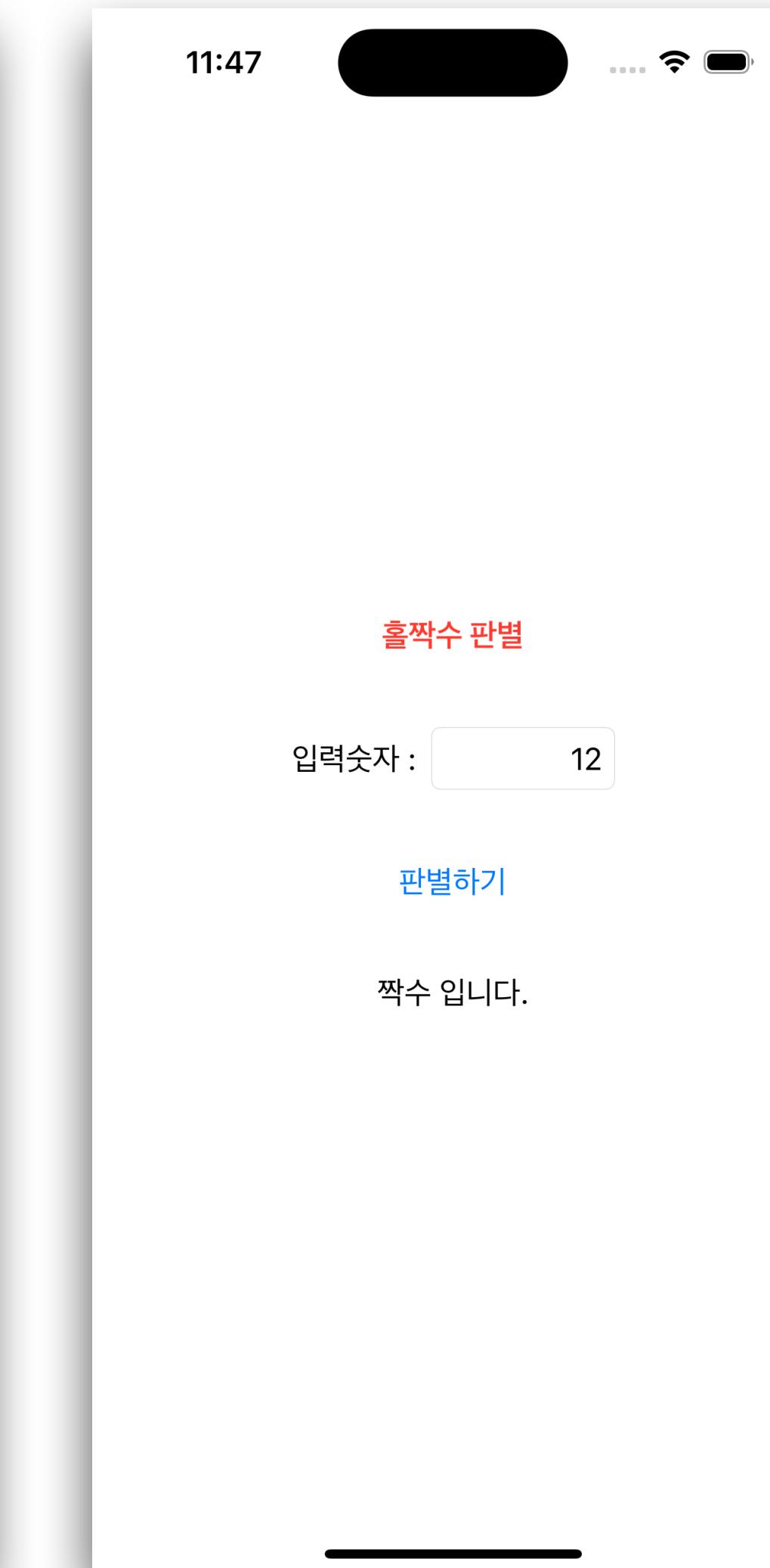
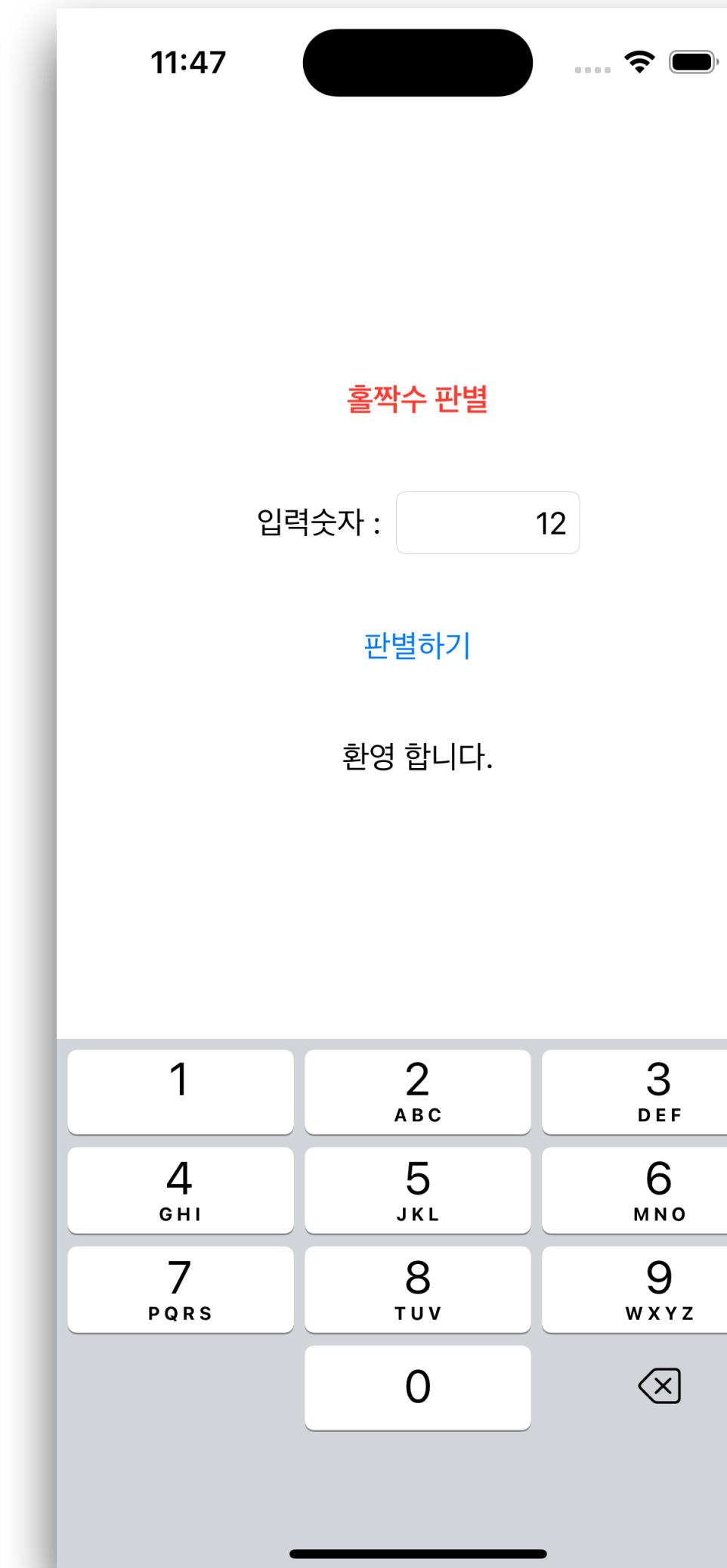
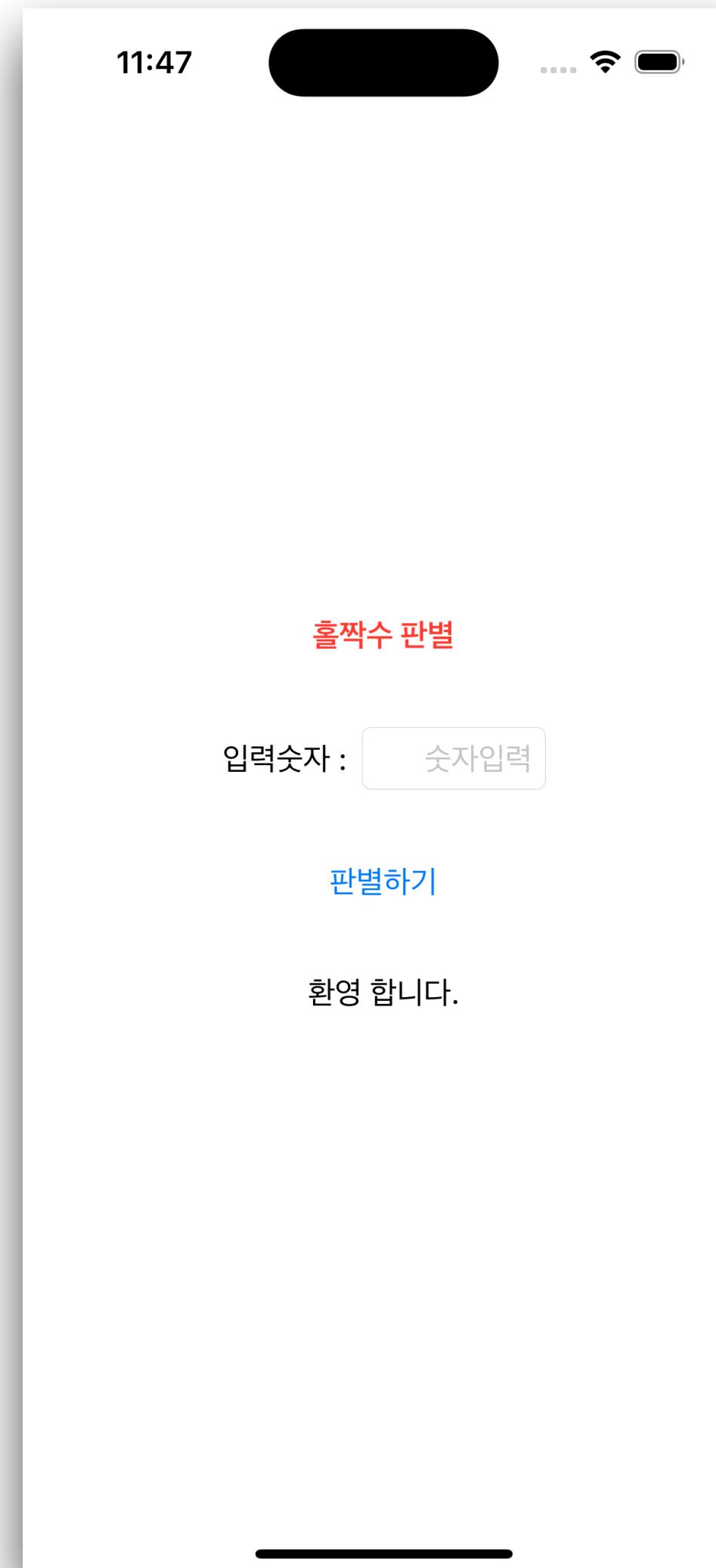
The figure consists of three vertically stacked screenshots of a mobile application interface. A large blue double-headed vertical arrow in the center indicates a flow or comparison between the screens.

Screenshot 1 (Left): The title is "두개의 숫자 연산". It has two input fields: "첫번째 숫자 : 1st Number" and "두번째 숫자 : 2nd Number". Below these are two buttons: "계산하기" (Calculate) and "초기화" (Reset). At the bottom, there are four output fields: "덧셈 결과:", "뺄셈 결과:", "곱셈 결과:", and "나눗셈 결과:". The message "숫자 연산입니다." is displayed at the bottom.

Screenshot 2 (Middle): The title is "두개의 숫자 연산". It shows the inputs "첫번째 숫자 : 15" and "두번째 숫자 : 4". Below them is a "계산하기" button. To the right are four empty output fields: "덧셈 결과:", "뺄셈 결과:", "곱셈 결과:", and "나눗셈 결과:". The message "숫자 연산입니다." is displayed above a numeric keypad. The keypad has digits 1 through 9, 0, and a backspace key, with letters assigned to each digit: 1(ABC), 2(DEF), 3(GHI), 4(JKL), 5(MNO), 6(PQRS), 7(TUV), 8(WXYZ), and 0.

Screenshot 3 (Right): The title is "두개의 숫자 연산". It shows the inputs "첫번째 숫자 : 15" and "두번째 숫자 : 4". Below them are two buttons: "계산하기" and "초기화". At the bottom, there are four output fields with results: "덧셈 결과 : 19", "뺄셈 결과 : 11", "곱셈 결과 : 60", and "나눗셈 결과 : 3.75". The message "계산이 완료 되었습니다." is displayed at the bottom.

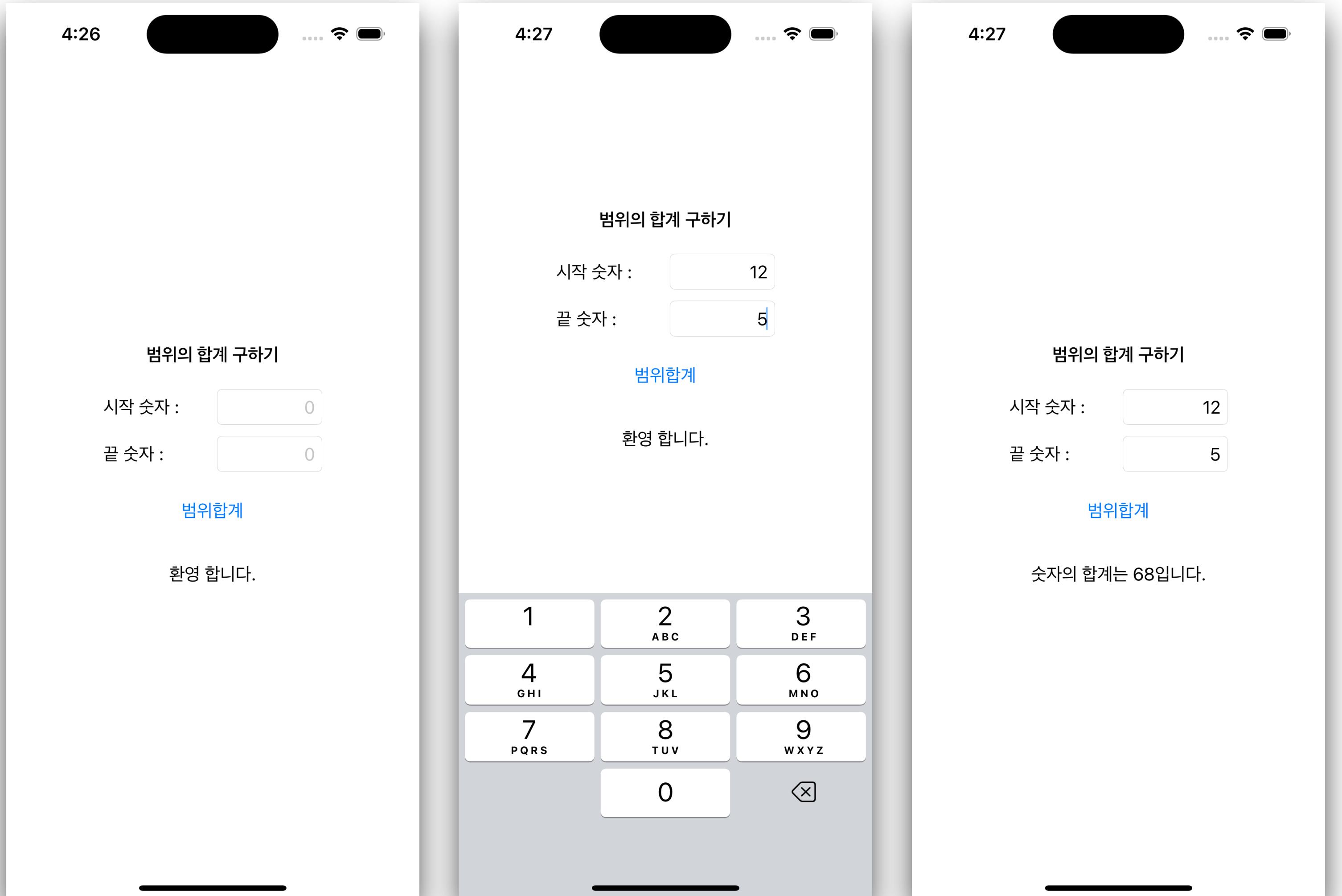
Quiz 03. 숫자를 입력 받아 짹수 인자 훌수 인지 판별 하기



Quiz 31. 짝수인 경우에만 덧셈 계산하기

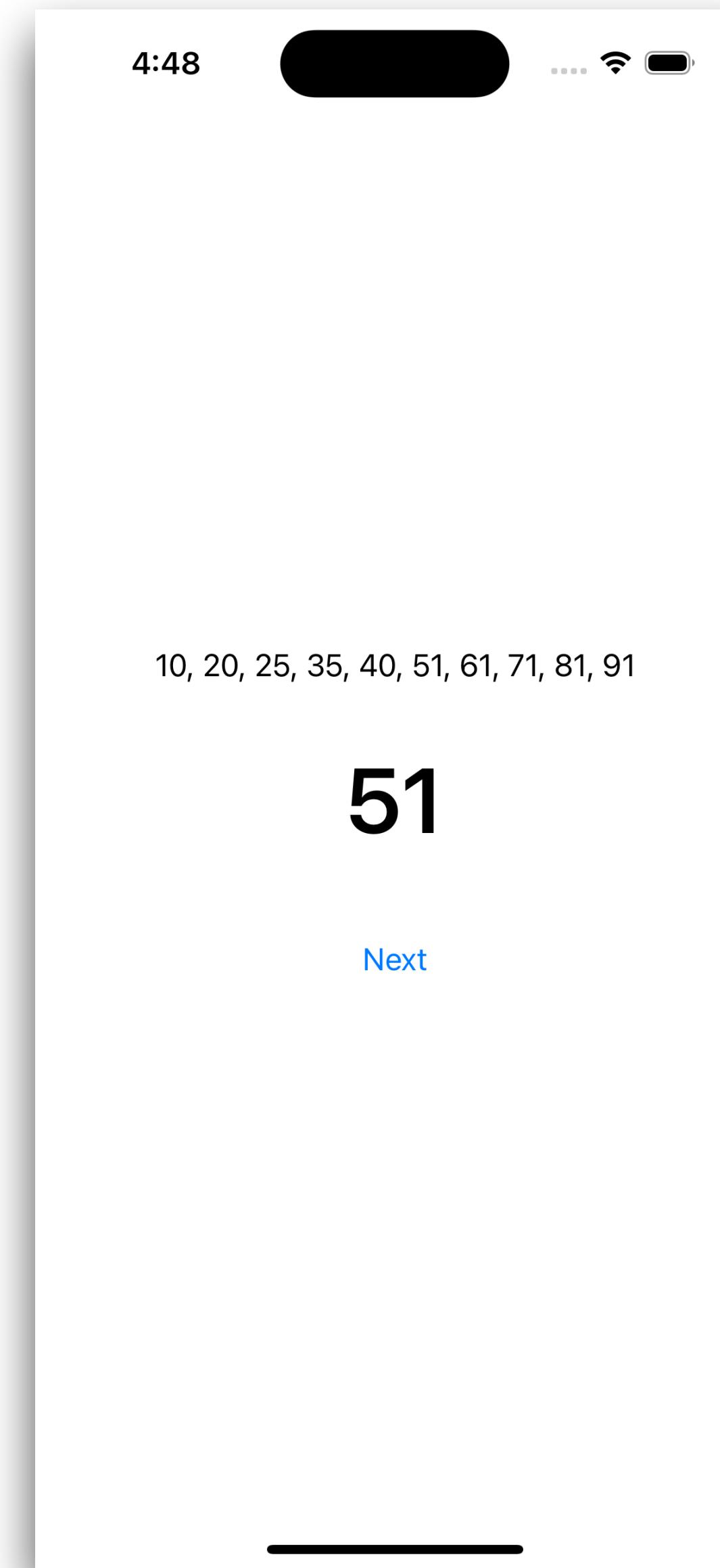


Quiz 32. 범위의 합계 구하기

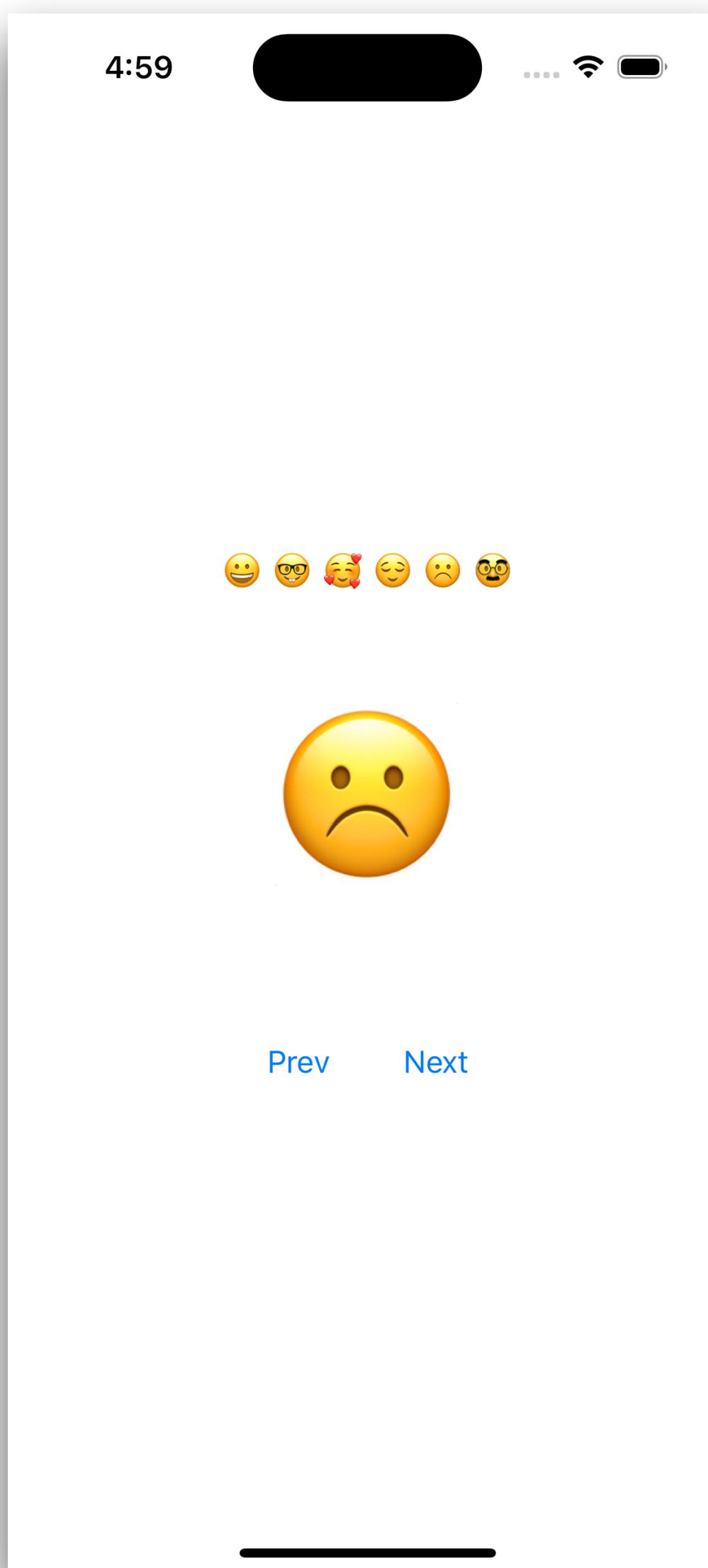


- 입력을 안하면 0으로 대체
- 끝 숫자가 시작 숫자 보다 작으면
시작 숫자와 끝숫자 바꾸기

숫자 증가하면서 보여주기



Emoji들을 무한 반복하면서 보여주기



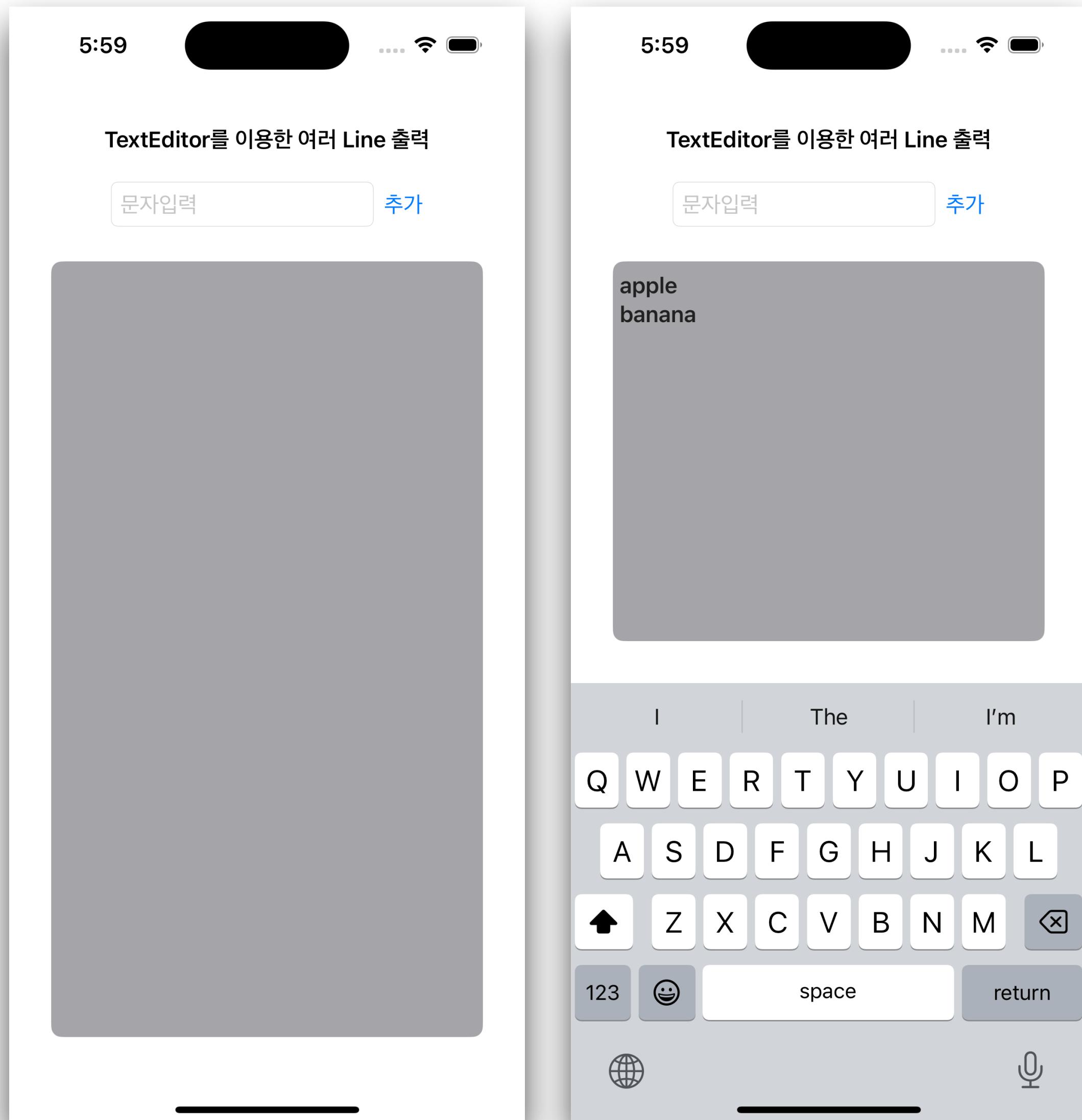
평균점수 등급 계산

평균은 \String(format:"%.2f", avg)이고 ...

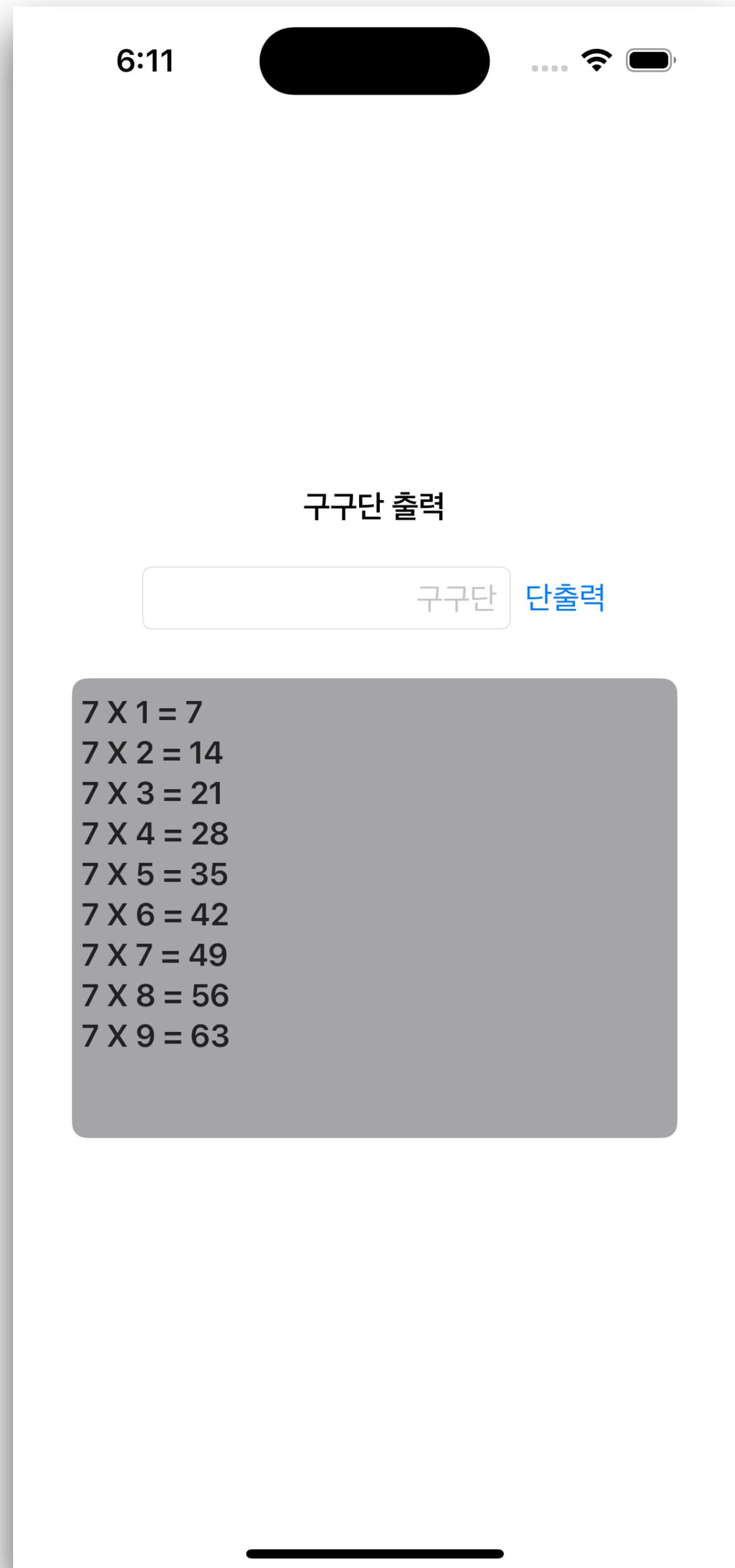
The screenshots show three stages of a mobile application for calculating average scores and grades:

- Initial State:** Shows three input fields for subjects: 국어 (Korean), 영어 (English), and 수학 (Math). Each field has a placeholder "숫자입력" (Number Input). Below the fields is a blue "계산하기" (Calculate) button. At the bottom is a numeric keypad with digits 0-9 and function keys 1-9 with letter ranges (e.g., 1-ABC, 2-DEF, etc.).
- Input Stage:** The user has entered scores: 98 for Korean, 85 for English, and 74 for Math. The "계산하기" button is now blue and centered.
- Result Stage:** The app displays the message "평균은 85.67이고 등급은 우 입니다." (The average is 85.67 and the grade is Excellent). The "계산하기" button is blue and centered.

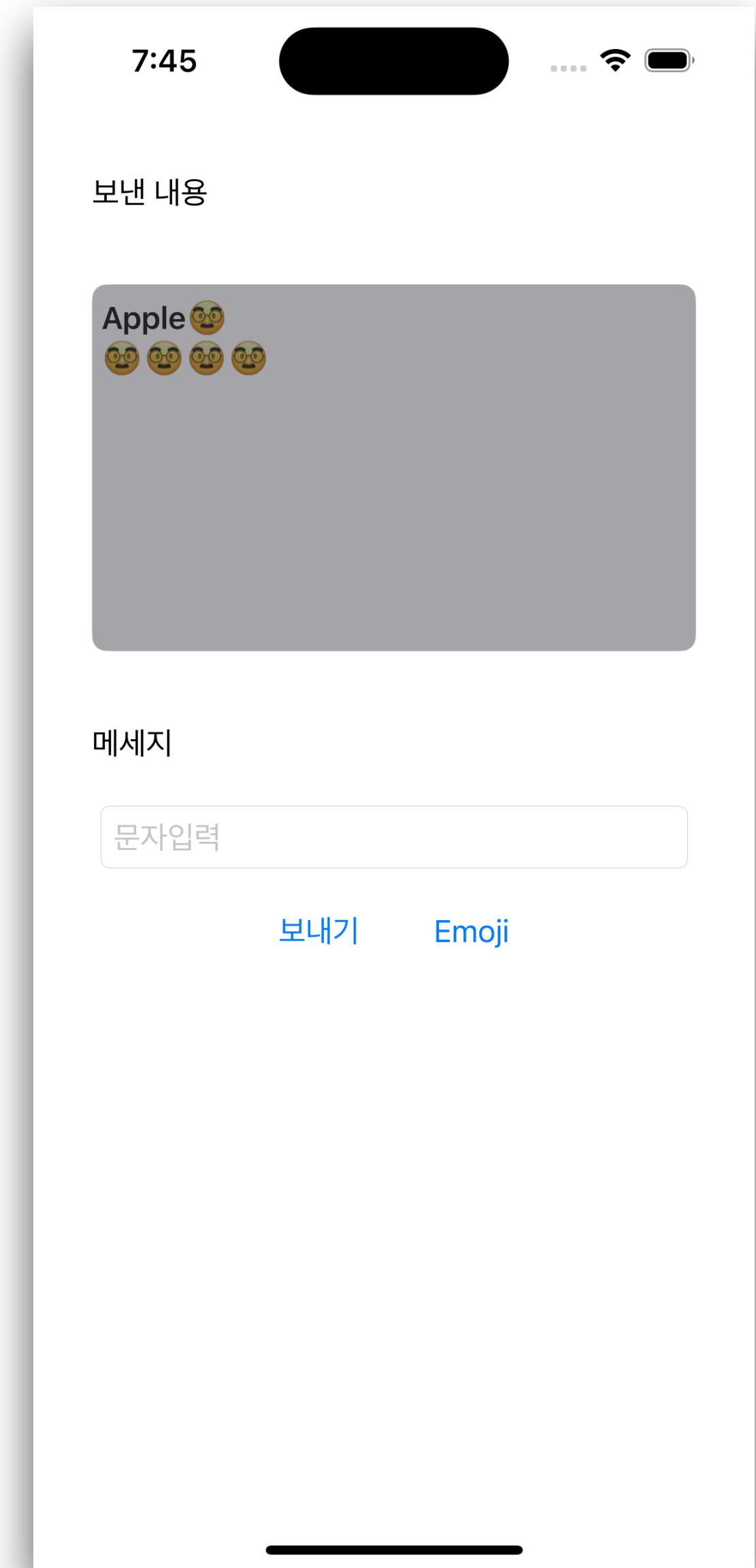
04. 여러줄을 한번에 출력하기



Quiz 05. 구구단 출력



메세지 보내기



SendMessage

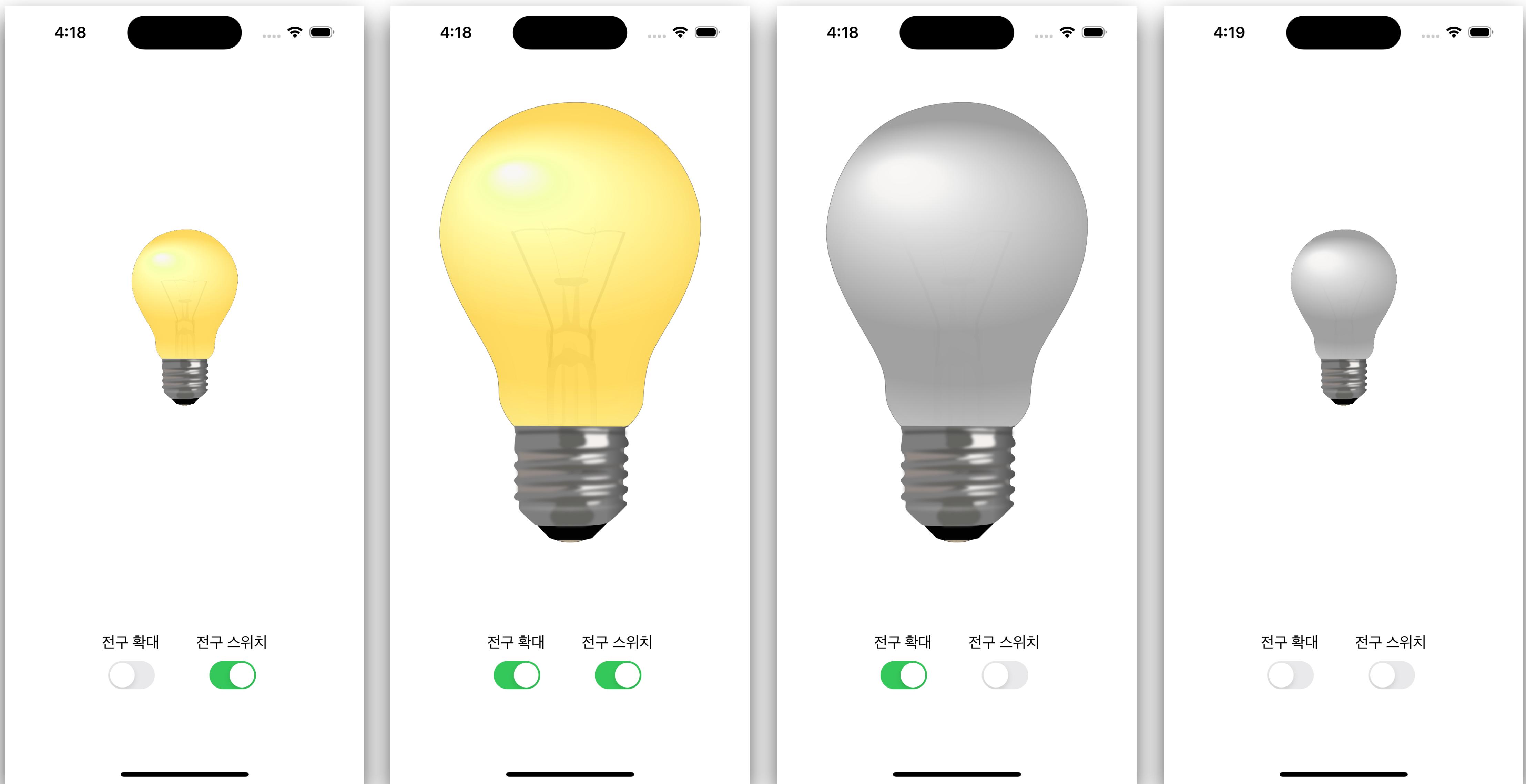
05. Image 화면 출력



Image는 Assets.xcassets에 넣는다

ImageView

Quiz 051



TextFieldSwitchCalc

The screenshots illustrate the state transition of the TextFieldSwitchCalc application across four stages:

- Stage 1 (Initial State):** Shows two empty text fields for input. Below them are two blue "계산하기" (Calculate) buttons and two red "지우기" (Clear) buttons. At the bottom, there are four pairs of toggle switches labeled: 덧셈 (Addition), 뺄셈 (Subtraction), 곱셈 (Multiplication), and 나눗셈 (Division). Each pair has a corresponding result text field below it: 덧셈 결과 (Addition result), 뺄셈 결과 (Subtraction result), 곱셈 결과 (Multiplication result), and 나눗셈 결과 (Division result). A numeric keypad at the bottom provides digits 0-9 and a clear button.
- Stage 2 (Input Phase):** The first text field contains "13" and the second contains "5". The "계산하기" button above the first field is blue, while the one above the second is red. The toggle switches for Addition and Subtraction are active (green), while Multiplication and Division are inactive (gray).
- Stage 3 (Intermediate Results):** The first text field shows "13" and the second shows "5". The "계산하기" button above the first field is blue, and the one above the second is red. All four pairs of toggle switches are now active (green), indicating they have been selected.
- Stage 4 (Final Results):** The first text field shows "18.0" and the second shows "8.0". The "계산하기" button above the first field is blue, and the one above the second is red. The toggle switches for Multiplication and Division are active (green), while Addition and Subtraction are inactive (gray). The result text fields show "곱셈 결과" (Multiplication result) and "나눗셈 결과" (Division result).

Class를 이용한 덧셈

