Assignment: Dicee App with Auto Layout

Objective:

In this project, you will create a simple iOS app using Auto Layout tools in the storyboard. The app will have two dice images and a button. When the button is pressed, both dice will change randomly, simulating the rolling of dice.

Requirements:

- The project must be done using Auto Layout in the storyboard.
- You will place **two UllmageView** elements to represent the dice.
- Add a **UIButton** element below the dice for the user to roll the dice.
- When the button is pressed, the dice images should change randomly.

Steps:

1. Project Setup:

- a. Create a new iOS project in Xcode using the **Single View App** template.
- b. Name the project "Dicee".

2. Design the Interface:

- a. Drag two **UllmageView** objects into your storyboard.
- b. Set the two dice images (you can use pre-designed dice images or use placeholders for now).
- c. Add a **UIButton** below the dice images. Set the button title to "Roll Dice".

3. Auto Layout:

- a. Use **Auto Layout** to ensure that the dice and button are properly aligned and responsive to different screen sizes.
- b. Both dice should be horizontally centered on the screen, with equal spacing between them.
- c. The button should be placed below the dice and centered horizontally.

4. Random Dice Roll Logic:

- a. In your **ViewController.swift**, create an action method for the button using the **@IBAction** directive.
- b. Add two arrays containing the names of the dice images (e.g., dice1.png, dice2.png, etc.).
- c. When the button is pressed, randomly select an image for each die from the array and update the **UllmageView** objects.

5. Additional Requirements:

- a. Use at least 6 different dice images for each die.
- b. Ensure that the random images do not match between the two dice each time you press the button.
- c. Provide a brief description of how you applied Auto Layout to ensure responsiveness on different screen sizes.

Bonus Challenge:

Implement a **shake gesture** to roll the dice without pressing the button. You can detect the shake using motionEnded in Swift.

Submission:

- Submit your project in git repository of your Xcode project folder.
- Ensure your app runs without errors in the simulator.

Grading Criteria:

- Proper use of **Auto Layout** (20%)
- Correct implementation of random dice images (40%)
- Clear and functional **UI layout** (20%)
- Code structure, clarity, and comments (10%)
- Bonus Challenge (10%)