

// design the game

use nine pictures // other methods exists

imageView  $\Rightarrow$  attribute  $\Rightarrow$  kenny

copy and paste 9 times

time label score highest score

1-2-1  $\Rightarrow$  reset to recommend constrain

// the code

import UIKit

class ViewController: UIViewController {

// variables

var score = 0

var timer = Timer()

var counter = 0

var kennyArray = [UIImageView]()

var hideTimer = Timer()

var highScore = 0

// views

@IBOutlet weak var timeLabel: UILabel!

// for all nine pics and other labels

override func viewDidLoad() {

super.viewDidLoad()

scoreLabel.text = "Score: \(score)"

// Highscore check

let storedHighScore = UserDefaults.standard.object(forKey: "highscore")

if storedHighScore == nil {

highScore = 0

highScoreLabel.text = "Highscore: \(highScore)"

if let newScore = storedHighScore as? Int {

highScore = newScore

highScoreLabel.text = "Highscore: \(highScore)"

}

// images

kenny1.isUserInteractionEnabled = true

// nine similar ones

let recognizer1 = UITapGestureRecognizer(target: self, action: #selector(increaseScore))

// nine similar ones

kenny1.addGestureRecognizer(recognizer1)

// nine similar ones

kennyArray = [kenny1, kenny2, kenny3, ..., kenny9]

// Timers

counter = 10

timeLabel.text = "\(counter)" // or String(counter)

timer = Timer.scheduledTimer(timeInterval: 1, target: self, selector: #selector(countDown), userInfo: nil, repeats: true)

hideTimer = Timer.scheduledTimer(timeInterval: 0.5, target: self, selector: #selector(hideKenny), userInfo: nil, repeats: true)

hideKenny()

}

@objc func hideKenny() {

for kenny in kennyArray {

kenny.isHidden = true

}

let random = Int(arc4random\_uniform(UInt32(kennyArray.count - 1)))

kennyArray[random].isHidden = false

}

Timer

Alert

Gesture Recognizer

User Defaults



```

@objc func increaseScore() {
    score += 1
    scoreLabel.text = "Score: \(score)"
}

```

```

@objc func countDown() {
    counter -= 1
    timeLabel.text = String(counter)

    if counter == 0 {
        timer.invalidate()
    }

    for kenny in kennyArray {
        kenny.isHidden = true
    }
}

```

```

// High Score
if self.score > self.highScore {
    self.highScore = self.score
    highScoreLabel.text = "High score: \(self.highScore)"
    UserDefaults.standard.set(self.highScore, forKey: "highScore")
}

```

```

// Alert

```

```

let alert = UIAlertController(title: "Time's Up", message: "Do you want to play again?", preferredStyle: UIAlertController.Style.alert)
let okButton = UIAlertAction(title: "OK", style: UIAlertAction.Style.cancel, handler: nil)
let replayButton = UIAlertAction(title: "Replay", style: UIAlertAction.Style.default) {
    (UIAlertAction) in
    // replay function
    self.score = 0
    self.scoreLabel.text = "Score: \(self.score)"
    self.counter = 10
    self.timeLabel.text = String(self.counter)
    self.timer = Timer.scheduledTimer(timeInterval: 1, target: self, selector: #selector(self.countDown), userInfo: nil, repeats: true)
    self.hideTimer = Timer.scheduledTimer(timeInterval: 0.5, target: self, selector: #selector(self.hideKenny), userInfo: nil, repeats: true)
}
alert.addAction(okButton)
alert.addAction(replayButton)
self.present(alert, animated: true, completion: nil)
}

```

```

}

```

```

}

```