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PersonalFinance.swift
    FBLA-QuizME
    Created by Udit Garg on 11/28/18.
import Foundation
import UIKit
import MessageUI
class PersonalFinance: UIViewController {
   @IBOutlet weak var QuestionLabel: UILabel!
   @IBOutlet weak var Answer1: UIButton!
    @IBOutlet weak var Answer2: UIButton!
    @IBOutlet weak var Answer3: UIButton!
   @IBOutlet weak var Answer4: UIButton!
   @IBOutlet weak var NextQuestion: UIButton!
   @IBOutlet weak var ScoreLabel: UILabel!
   var randomQuestionArray:[Int] = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
    override func viewDidLoad() {
        super.viewDidLoad()
        NextQuestion.isHidden = true
        Answer1.layer.borderWidth=1
        Answer1.layer.borderColor=UIColor.darkGray.cgColor
        Answer1.layer.cornerRadius=5
        Answer2.layer.borderWidth=1
        Answer2.layer.borderColor=UIColor.darkGray.cgColor
        Answer2.layer.cornerRadius=5
        Answer3.layer.borderWidth=1
        Answer3.layer.borderColor=UIColor.darkGray.cgColor
        Answer3.layer.cornerRadius=5
        Answer4.layer.borderWidth=1
        Answer4.layer.borderColor=UIColor.darkGray.cgColor
        Answer4.layer.cornerRadius=5
        Answer1Correct = false
        Answer2Correct = false
        Answer3Correct = false
        Answer4Correct = false
        RandomQuestions()
        ScoreNumber = 0
    }
    override func didReceiveMemoryWarning() {
       super.didReceiveMemoryWarning()
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}
     func rightAnswer() {
         NextQuestion.isHidden = false
         ScoreNumber = Int(ScoreNumber) + 2
         ScoreLabel.text = String(format: "%i", ScoreNumber)
     }
     func wrongAnswer() {
         ScoreNumber = Int(ScoreNumber) - 1
         ScoreLabel.text = String(format: "%i", ScoreNumber)
     // This function randomly generates questions without repeat
     func RandomOuestions(){
         Answer1.isEnabled = true
         Answer2.isEnabled = true
         Answer3.isEnabled = true
          Answer4.isEnabled = true
         // This makes randomIndex represent the number of questions available for this
         let randomIndex = Int(arc4random uniform(UInt32(randomQuestionArray.count)))
answered
         if randomQuestionArray.count > -1 {
               switch (randomQuestionArray[randomIndex]) {
               case 0:
                    QuestionLabel.text = "Earning a degree at a four-year college is a __
goal for a high school sophomore"
                    Answer1.setTitle("short-term", for: .normal)
                    Answer2.setTitle("long-term", for: .normal)
Answer3.setTitle("mid-term", for: .normal)
Answer4.setTitle("future financial", for: .normal)
                    Answer2Correct = true
               case 1:
                    QuestionLabel.text = "One example of non-taxable income is:"
                    Answer1.setTitle("salary", for: .normal)
Answer2.setTitle("child support", for: .normal)
Answer3.setTitle("interest earned on savings", for: .normal)
Answer4.setTitle("dividends earned on stocks", for: .normal)
                    Answer2Correct = true
               case 2:
                    QuestionLabel.text = "The sales tax is an example of which type of
                   Answer1.setTitle("regressive", for: .normal)
Answer2.setTitle("progressive", for: .normal)
                    Answer3.setTitle("excise", for: .normal)
Answer4.setTitle("proportional", for: .normal)
                    Answer1Correct = true
               case 3:
                    QuestionLabel.text = "___ is not a commodity sold on the futures
market"
                    Answer1.setTitle("Coal", for: .normal)
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Answer2.setTitle("Corn", for: .normal)
Answer3.setTitle("Beef", for: .normal)
Answer4.setTitle("Stock.", for: .normal)
                      Answer4Correct = true
                case 4:
                      QuestionLabel.text = "The ___ is the legally established ownership of
                     Answer1.setTitle("lie", for: .normal)
                     Answer2.setTitle("deed", for: .normal)
                     Answer3.setTitle("title n", for: .normal)
Answer4.setTitle("mortgage", for: .normal)
                      Answer3Correct = true
                      QuestionLabel.text = "Because of an error in the pricing bar code,
everyone who bought a pair of jeans at a nationwide clothing store last month was
overcharged by three dollars. The legal action to take would be:"
                      Answer1.setTitle("a class action lawsuit", for: .normal)
                     Answer2.setTitle("arbitration", for: .normal)
Answer3.setTitle("negotiation", for: .normal)
Answer4.setTitle("mediation", for: .normal)
                      Answer1Correct = true
                case 6:
                      QuestionLabel.text = "The ___ endorsement on a paycheck is the safest
for the consumer'
                     Answer1.setTitle("blank", for: .normal)
Answer2.setTitle("special", for: .normal)
                     Answer4.setTitle("restrictive", for: .normal)
Answer4.setTitle("two-party", for: .normal)
                      Answer3Correct = true
                case 7:
                      QuestionLabel.text = "___ can solve a sudden need for cash with a pre-
                     Answer1.setTitle("Line of credit", for: .normal)
Answer2.setTitle("Deferred billing", for: .normal)
Answer3.setTitle("Collateral", for: .normal)
                      Answer4.setTitle("Overdraft protection", for: .normal)
                      Answer1Correct = true
                case 8:
                     QuestionLabel.text = "The laws in each state that set the limits for
interest rates are called"
                     Answer1.setTitle("Mastercard", for: .normal)
Answer2.setTitle("Loan Sharks", for: .normal)
Answer3.setTitle("Usury Laws", for: .normal)
                      Answer4.setTitle("Better Business Bureau", for: .normal)
                      Answer3Correct = true
                case 9:
                      QuestionLabel.text = "Each of the following are ways to evaluate
possible investments EXCEPT'
                      Answer1.setTitle("The chaos theory", for: .normal)
                     Answer2.setTitle("The fundamental theory", for: .normal)
Answer3.setTitle("The technical theory ", for: .normal)
Answer4.setTitle("The efficient market theory", for: .normal)
                      Answer1Correct = true
                case 10:
                      QuestionLabel.text = "An example of a short term investment strategy
                     Answer1.setTitle("the buy and hold technique ", for: .normal)
                     Answer2.setTitle("Buying stock on margin", for: .normal)
                     Answer3.setTitle("Dollar cost averaging", for: .normal)
Answer4.setTitle("A dividend reinvestment plan", for: .normal)
                      Answer2Correct = true
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case 11:
                    QuestionLabel.text = "Financial planes that are more than five years
off"
                   Answer1.setTitle("Opportunity plans ", for: .normal)
                   Answer2.setTitle("Long term goals", for: .normal)
                   Answer3.setTitle("Intermediate goals", for: .normal)
Answer4.setTitle("Attainable goals", for: .normal)
                   Answer2Correct = true
               case 12:
                    QuestionLabel.text = "A series of equal regular deposits is called "
                    Answer1.setTitle("Serial deposits", for: .normal)
                   Answer2.setTitle("An annuity", for: .normal)
Answer3.setTitle("A personal financial plan", for: .normal)
                    Answer4.setTitle("Paycheck", for: .normal)
                    Answer2Correct = true
              default:
                   break
               randomQuestionArray.remove(at: randomIndex)
         }
          if (randomQuestionArray.count < 1) {</pre>
              let alert = UIAlertController(title: "Wow!", message: "You have reached
the last question for Personal Finance! Nice Job! Complete this question and then
click on 'Your Score' for a rating!", preferredStyle: .alert)
              alert.addAction(UIAlertAction(title: "Continue", style: .default, handler:
{ action in
                    switch action.style{
                    case .default:
                        print("default")
                    case .cancel:
                        print("cancel")
                    case .destructive:
                        print("destructive")
                   }}))
               self.present(alert, animated: true, completion: nil)
              NextQuestion isEnabled = false
          }
          if (randomQuestionArray.count == 0) {
let alert = UIAlertController(title: "Wow!", message: "You got \(ScoreNumber) out of 13 questions correct nice job! To see a detailed breakdown of your score, click-Your Score-next to your score number.", preferredStyle: .alert) alert.addAction(UIAlertAction(title: "Continue", style: .default, handler:
{ action in
                    switch action.style{
                    case .default:
                        print("default")
                    case .cancel:
                        print("cancel")
                    case .destructive:
                        print("destructive")
              self.present(alert, animated: true, completion: nil)
     }
```

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@IBAction func Answer1(_ sender: Any) {
    if Bool(Answer1Correct) == true {
        rightAnswer()
        Answer1.layer.backgroundColor = UIColor.green.cgColor
        Answer1.isEnabled = false
        Answer2.isEnabled = false
        Answer3.isEnabled = false
        Answer4.isEnabled = false
    } else {
        wrongAnswer()
        Answer1.layer.backgroundColor = UIColor.red.cgColor
        Answer1.isEnabled = false
    }
}
@IBAction func Answer2(_ sender: Any) {
    if Bool(Answer2Correct) == true {
        rightAnswer()
        Answer2.layer.backgroundColor = UIColor.green.cgColor
        Answer2.isEnabled = false
        Answer1.isEnabled = false
        Answer3.isEnabled = false
        Answer4.isEnabled = false
    } else {
        wrongAnswer()
        Answer2.layer.backgroundColor = UIColor.red.cgColor
        Answer2.isEnabled = false
    }
}
@IBAction func Answer3(_ sender: Any) {
    if Bool(Answer3Correct) == true {
        rightAnswer()
        Answer3.layer.backgroundColor = UIColor.green.cgColor
        Answer3.isEnabled = false
        Answer1.isEnabled = false
        Answer2.isEnabled = false
        Answer4.isEnabled = false
    } else {
        wrongAnswer()
        Answer3.layer.backgroundColor = UIColor.red.cgColor
        Answer3.isEnabled = false
    }
@IBAction func Answer4(_ sender: Any) {
    if Bool(Answer4Correct) == true {
        rightAnswer()
        Answer4.layer.backgroundColor = UIColor.green.cgColor
        Answer4.isEnabled = false
        Answer1.isEnabled = false
        Answer2.isEnabled = false
        Answer3.isEnabled = false
    } else {
        wrongAnswer()
        Answer4.layer.backgroundColor = UIColor.red.cgColor
        Answer4.isEnabled = false
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// Resets the colors and answers and generates another question
@IBAction func NextQuestion(_ sender: Any) {
    Answer1.layer.backgroundColor = UIColor.white.cgColor
    Answer2.layer.backgroundColor = UIColor.white.cgColor
    Answer3.layer.backgroundColor = UIColor.white.cgColor
    Answer4.layer.backgroundColor = UIColor.white.cgColor
    NextQuestion.isHidden = true
    Answer1Correct = false
    Answer2Correct = false
    Answer3Correct = false
    Answer4Correct = false
    RandomQuestions()
}
```