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FBLA-QuizME
    Created by Udit Garg on 11/28/18.
import Foundation
import UIKit
import MessageUI
class SecuritiesAndInvestments: 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 = "Brokerage commissions that typically apply to
the small transactions usually made by individual investors are based on"

Answer1.setTitle("marginal performance", for: .normal)

Answer2.setTitle("negotiated commissions", for: .normal)

Answer3.setTitle("fixed-commission schedules", for: .normal)

Answer4.setTitle("percentage of earnings", for: .normal)
                   Answer3Correct = true
              case 1:
                   QuestionLabel.text = "The chance that an investment's value will
                   Answer1.setTitle("load", for: .normal)
                   Answer2.setTitle("will", for: .normal)
Answer3.setTitle("trust", for: .normal)
Answer4.setTitle("risk", for: .normal)
                   Answer4Correct = true
              case 2:
                   QuestionLabel.text = "The savings accumulated in a permanent life
Answer4.setTitle("par value", for: .normal)
                   Answer2Correct = true
              case 3:
                   QuestionLabel.text = "Interest on ___ can be deducted on income taxes"
                   Answer1.setTitle("car loans", for: .normal)
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Answer2.setTitle("revolving credit cards", for: .normal)
                    Answer3.setTitle("department store credit card charges", for: .normal)
                    Answer4.setTitle("mortgages.", for: .normal)
                     Answer4Correct = true
                     QuestionLabel.text = "___ security certificates are issued in the
brokerage firm's name but held in trust for its client, who actually owns them."
                    Answer1.setTitle("Street name", for: .normal)
Answer2.setTitle("Day trader", for: .normal)
Answer3.setTitle("Market order", for: .normal)
                     Answer4.setTitle("Insured", for: .normal)
                     Answer1Correct = true
               case 5:
                     QuestionLabel.text = "Stock dividends stated as a percentage of the
                     Answer1.setTitle("debenture", for: .normal)
                    Answer2.setTitle("market order", for: .normal)
Answer3.setTitle("percent yield", for: .normal)
                     Answer4.setTitle("market value", for: .normal)
                     Answer3Correct = true
               case 6:
                     QuestionLabel.text = "___ stocks receive dividends first before other
                    Answer1.setTitle("Participating", for: .normal)
                    Answer2.setTitle("Blue chip", for: .normal)
                     Answer3.setTitle("Common", for: .normal)
                     Answer4.setTitle("Preferred", for: .normal)
                     Answer4Correct = true
               case 7:
                     QuestionLabel.text = "Shares in a company whose earnings are expected
to grow at an above-average rate relative to the market represent a"
                    Answer1.setTitle("high risk company", for: .normal)
Answer2.setTitle("defensive company", for: .normal)
Answer3.setTitle("growth company", for: .normal)
Answer4.setTitle("conservative company", for: .normal)
                     Answer3Correct = true
               case 8:
                    QuestionLabel.text = "The ___ measures inflation/deflation for basic
consumer goods and services'
                    Answer1.setTitle("collateralized mortgage operation", for: .normal)
Answer2.setTitle("Gross Domestic Product", for: .normal)
Answer3.setTitle("Consumer Product Index", for: .normal)
Answer4.setTitle("inflation index", for: .normal)
                     Answer3Correct = true
               case 9:
                     QuestionLabel.text = "A mutual fund that tries to match the
performance of a particular securities index by investing in the companies included in
                    Answer1.setTitle("balance fund", for: .normal)
                    Answer2.setTitle("index fund", for: .normal)
Answer3.setTitle("global fund", for: .normal)
Answer4.setTitle("growth fund", for: .normal)
                     Answer2Correct = true
               case 10:
                    QuestionLabel.text = "This investment product offers diversity and
                    Answer1.setTitle("stocks", for: .normal)
                     Answer2.setTitle("corporate stock", for: .normal)
                    Answer3.setTitle("mutual fund", for: .normal)
Answer4.setTitle("bonds", for: .normal)
                     Answer3Correct = true
```

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case 11:
QuestionLabel.text = "___ can be exchanged for a certain number of shares of the issuer's common stock."
                       Answer1.setTitle("Secured Bonds", for: .normal)
                       Answer2.setTitle("Debenture bonds", for: .normal)
Answer3.setTitle("Savings bonds", for: .normal)
                       Answer4.setTitle("Convertible bonds", for: .normal)
                       Answer4Correct = true
                  case 12:
                       QuestionLabel.text = "___ bonds are backed by collateral."
                       Answer1.setTitle("Secured", for: .normal)
Answer2.setTitle("Corporate", for: .normal)
Answer3.setTitle("Speculative", for: .normal)
Answer4.setTitle("Unsecured", for: .normal)
                       Answer1Correct = 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 Securities and Investments! 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)
      }
```

```
@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()
}
```