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InsuranceRiskManagement.swift
    FBLA-QuizME
    Created by Udit Garg on 11/25/18.
import Foundation
import UIKit
import MessageUI
class InsuranceRiskManagement: 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 = "Pure risk may be said to create an economic
burden in all except which one of the following ways?"

Answer1.setTitle("pure risk results in gambling", for: .normal)

Answer2.setTitle("pure risk may deprive society of certain
resources", for: .normal)
                        Answer3.setTitle("pure risk can result in feelings of mental
unrest", for: .normal)
                        Answer4.setTitle("all of the above", for: .normal)
                        Answer1Correct = true
                    case 1:
                        QuestionLabel.text = "The risk of potential losses to others as a
result of injury or damage you may have caused is"

Answer1.setTitle("property risk", for: .normal)

Answer2.setTitle("insurance", for: .normal)

Answer3.setTitle("liability risk", for: .normal)

Answer4.setTitle("personal risk", for: .normal)
                        Answer3Correct = true
                    case 2:
                        QuestionLabel.text = "Examples of physical hazards include:"
                        Answer1.setTitle("dishonest employee", for: .normal)
Answer2.setTitle("building fire, oily rags, and a dishonest
employee", for: .normal)
                        Answer3.setTitle("oily rags and a gas leak", for: .normal)
                        Answer4.setTitle("a building fire", for: .normal)
                        Answer4Correct = true
                    case 3:
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QuestionLabel.text = "Ken fell asleep while driving late at night."
He crossed the center line and hit a car approaching from the other direction. The
following losses occurred:"
                       Answer1.setTitle("the car that Ken hit was a total loss", for:
.normal)
                       Answer2.setTitle("Ken's car sustained $5,000 in damages", for:
.normal)
                       Answer3.setTitle("Ken incurred $5,000 in medical expenses", for:
.normal)
                       Answer4.setTitle("the driver of the other car suffered $30,000 in
bodily injuries", for: .normal)
                       Answer4Correct = true
                   case 4:
                       QuestionLabel.text = "Which one of the following losses would be
covered under the medical payments coverage of the Homeowners 3 policy?"
                       Answer1.setTitle("injury to a resident employee at the insured's
home", for: .normal)
                       Answer2.setTitle("injury caused by an negligent operation of a
vehicle", for: .normal)
                       Answer3.setTitle("medical payments due to contagious disease",
for: .normal)
                       Answer4.setTitle("workers compensation medical payments", for:
.normal)
                       Answer1Correct = true
                   case 5:
                       QuestionLabel.text = "A provision in disability insurance that
specifies the conditions under which the insured is automatically considered disabled
                       Answer1.setTitle("Investment spending does not change", for:
.normal)
                       Answer2.setTitle("Gross investment increases", for: .normal)
Answer3.setTitle("Investment demand decreases", for: .normal)
                       Answer4.setTitle("Net investment decreases", for: .normal)
                       Answer2Correct = true
                   case 6:
                       QuestionLabel.text = "______ is the likelihood that an event
will occur."
                       Answer1.setTitle("Peril", for: .normal)
Answer2.setTitle("Hazard", for: .normal)
Answer3.setTitle("Probability", for: .normal)
Answer4.setTitle("Risk", for: .normal)
                       Answer3Correct = true
                   case 7:
                       QuestionLabel.text = "In what career would a person assess the
cost of replacing or repairing damaged property?"

Answer1.setTitle("agent", for: .normal)

Answer2.setTitle("appraiser", for: .normal)

Answer3.setTitle("claims adjustor", for: .normal)

Answer4.setTitle("risk manager", for: .normal)
                       Answer2Correct = true
                   case 8:
                       QuestionLabel.text = "Defintion of Risk is the likelihood that
                       Answer1.setTitle("a hazard will result in a mishap or loss", for:
.normal)
                       Answer2.setTitle("a hazard will result in a disaster", for:
.normal)
                       Answer3.setTitle("a hazard will result in a favorable outcome",
for: .normal)
                       Answer4.setTitle("a hazard will result in a change in command",
for: .normal)
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Answer1Correct = true
                 case 9:
                     QuestionLabel.text = "The process of detecting hazards and
assessing the associated risk is called"
                     Answer1.setTitle("The right process", for: .normal)
                     Answer2.setTitle("Risk assessment", for: .normal)
Answer3.setTitle("Risk Management Process", for: .normal)
                     Answer4.setTitle("None of the above", for: .normal)
                     Answer2Correct = true
                     QuestionLabel.text = "Operational Risk Management"
                     Answer1.setTitle("Is a decision making tool", for: .normal)
                     Answer2.setTitle("Increases ability to make informed decisions",
for: .normal)
                     Answer3.setTitle("Reduces risks to acceptable levels", for:
.normal)
                     Answer4.setTitle("All of the above", for: .normal)
                     Answer4Correct = true
                 case 11:
                     QuestionLabel.text = "Which of the following is a principal of
                     Answer1.setTitle("Make risk decisions at the right level", for:
.normal)
                     Answer2.setTitle("Make risk decisions right away", for: .normal)
                     Answer3.setTitle("Make no decisions until after talking it over",
for: .normal)
                     Answer4.setTitle("All of the above", for: .normal)
                     Answer1Correct = true
                 case 12:
                     QuestionLabel.text = "Causes of risk include all of the following
except"
                     Answer1.setTitle("New Technology", for: .normal)
                     Answer2.setTitle("Change \"The Mother of all Risk\"", for:
.normal)
                     Answer3.setTitle("Environmental influences", for: .normal)
Answer4.setTitle("Chemical breakdown", 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 Insurance and Risk Management! Nice Job! Complete this question
{ action in
                 switch action.style{
                 case .default:
                     print("default")
                 case .cancel:
                     print("cancel")
                 case .destructive:
                     print("destructive")
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self.present(alert, animated: true, completion: nil)
            NextQuestion.isEnabled = false
        if (randomQuestionArray.count == 0) {
            let alert = UIAlertController(title: "Wow!", message: "You got
\lambda(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
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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
    }
}
@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()
```