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SpreadsheetApplications.swift
    FBLA-QuizME
import Foundation
import UIKit
class SpreadsheetApplications: UIViewController {
    // Set up variables that represent labels and buttons on the storyboard
   @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()
        NextOuestion.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
        // As soon as the view loads start generating the questions
        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)
     func RandomQuestions(){
          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 = "To move the screen down one page, press"
Answer1.setTitle("[Enter]", for: .normal)
Answer2.setTitle("[Delete]", for: .normal)
Answer3.setTitle("[PageDown]", for: .normal)
Answer4.setTitle("[Spacebar]", for: .normal)
                      Answer3Correct = true
                case 1:
                      QuestionLabel.text = "To paste a range of cells, press"
Answer1.setTitle("[Ctrl]+[X]", for: .normal)
Answer2.setTitle("[Ctrl]+[C]", for: .normal)
Answer3.setTitle("[Ctrl]+[P]", for: .normal)
Answer4.setTitle("[Ctrl]+[V]", for: .normal)
                      Answer4Correct = true
                case 2:
                      QuestionLabel.text = "A/an ____ reference does not change when a
formula is copied."
                      Answer1.setTitle("relative", for: .normal)
                      Answer2.setTitle("mixed", for: .normal)
Answer3.setTitle("absolute", for: .normal)
Answer4.setTitle("none of the above", for: .normal)
                      Answer3Correct = true
                case 3:
                      QuestionLabel.text = "When you delete cells, you are given the
following option:"
                      Answer1.setTitle("Shift cells right", for: .normal)
                      Answer2.setTitle("Shift cells down", for: .normal)
                      Answer4.setTitle("Entire row", for: .normal)
Answer4.setTitle("All of the above", for: .normal)
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Answer3Correct = true
                  case 4:
                        QuestionLabel.text = "To use the Redo command, you can press"
                       Answer1.setTitle("[Ctrl]+[Z]", for: .normal)
Answer2.setTitle("[Ctrl]+[X]", for: .normal)
Answer3.setTitle("[Ctrl]+[V]", for: .normal)
Answer4.setTitle("[Ctrl]+[Y]", for: .normal)
                        Answer4Correct = true
                        QuestionLabel.text = "You can use the Find command to locate"
                        Answer1.setTitle("words", for: .normal)
                       Answer3.setTitle("sequences of characters", for: .normal)
Answer3.setTitle("formats", for: .normal)
                       Answer4.setTitle("all of the above", for: .normal)
                        Answer4Correct = true
                  case 6:
                        QuestionLabel.text = "You can create a formula using the IF function
                       Answer1.setTitle("old or new", for: .normal)
Answer2.setTitle("greater or less than", for: .normal)
Answer3.setTitle("first or last", for: .normal)
                        Answer4.setTitle("true or false", for: .normal)
                       Answer4Correct = true
                  case 7:
                        QuestionLabel.text = "To change a column width,"
                        Answer1.setTitle("drag the row border to a different size.", for:
.normal)
                       Answer2.setTitle("double-click a column's right border to AutoFit.",
for: .normal)
                       Answer3.setTitle("double-click the row's bottom border to AutoFit.",
for: .normal)
                       Answer4.setTitle("None of the above", for: .normal)
                        Answer2Correct = true
                  case 8:
                       QuestionLabel.text = "To open the Forman cells dialog box, press"
Answer1.setTitle("[Ctrl]+[1]", for: .normal)
Answer2.setTitle("[Ctrl]+[2]", for: .normal)
Answer3.setTitle("[Ctrl]+[3]", for: .normal)
Answer4.setTitle("[Ctrl]+[4]", for: .normal)
                        Answer1Correct = true
                  case 9:
                        QuestionLabel.text = "To center a page horizontally, choose this tab
from the Page Setup dialog box'
                       Answer1.setTitle("Page", for: .normal)
Answer2.setTitle("Margins", for: .normal)
Answer3.setTitle("Header/Footer", for: .no
                                                                       ", for: .normal)
                        Answer4.setTitle("Sheet", for: .normal)
                        Answer2Correct = true
                  case 10:
                        QuestionLabel.text = "A chart sheet shows a"
                       Answer1.setTitle("chart in a sheet by itself", for: .normal)
Answer2.setTitle("chart in a sheet with a worksheet", for: .normal)
Answer3.setTitle("Chart in a Word document", for: .normal)
                        Answer4.setTitle("None of the above", for: .normal)
                        Answer1Correct = true
                  case 11:
                        QuestionLabel.text = "To accept an AutoComplete suggestion, press"
                       Answer1.setTitle("[Esc]", for: .normal)
Answer2.setTitle("[Tab]", for: .normal)
Answer3.setTitle("[Space]", for: .normal)
Answer4.setTitle("[Enter]", for: .normal)
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Answer4Correct = true
                case 12:
                     QuestionLabel.text = "The horizontal axis is generally the"
                     Answer1.setTitle("Y axis", for: .normal)
Answer2.setTitle("T axis", for: .normal)
Answer3.setTitle("Z axis", for: .normal)
Answer4.setTitle("X axis", for: .normal)
                     Answer4Correct = true
                case 13:
                     QuestionLabel.text = "The MIN function calculates the ____ value in a
range."
                     Answer1.setTitle("Largest", for: .normal)
Answer2.setTitle("Smallest", for: .normal)
Answer3.setTitle("Average", for: .normal)
Answer4.setTitle("None of the above", 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 Spreadsheet Applications! 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
     }
     @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
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@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
    }
}
@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()
```