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ComputerProblemSolving.swift
    FBLA-QuizME
    Created by Udit Garg on 11/25/18.
import Foundation
import UIKit
import MessageUI
class ComputerProblemSolving: 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)
    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 = "To open the Format 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 1:
                   QuestionLabel.text = "An entry that begins with a letter is recognized
automatically as a:'
                   Answer1.setTitle("Formula", for: .normal)
                   Answer2.setTitle("Word", for: .normal)
Answer3.setTitle("Label", for: .normal)
Answer4.setTitle("Heading", for: .normal)
                   Answer3Correct = true
              case 2:
                   QuestionLabel.text = "What is the shape of the mouse pointer in the
text area?"
                   Answer1.setTitle("An arrow pointing to the left", for: .normal)
                   Answer2.setTitle("An arrow pointing to the right", for: .normal)
                   Answer3.setTitle("An I-beam", for: .normal)
Answer4.setTitle("A blinking vertical line", for: .normal)
                   Answer3Correct = true
              case 3:
                   QuestionLabel.text = "What is the first 640k of memory addresses
called?"
                   Answer1.setTitle("extended memory", for: .normal)
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Answer2.setTitle("upper memory", for: .normal)
Answer3.setTitle("high memory", for: .normal)
Answer4.setTitle("conventional memory", for: .normal)
                         Answer4Correct = true
                  case 4:
                         QuestionLabel.text = "Which card is used to add modems and network
cards to the portable computer?'
                        Answer1.setTitle("Type 1", for: .normal)
Answer2.setTitle("Type 2", for: .normal)
Answer3.setTitle("Type 3", for: .normal)
Answer4.setTitle("Type 4", for: .normal)
                         Answer2Correct = true
                         QuestionLabel.text = "Which type of battery is used most often in
notebook computers?"
                        Answer1.setTitle("NiMH", for: .normal)
Answer2.setTitle("NiCad", for: .normal)
Answer3.setTitle("Li-ION", for: .normal)
Answer4.setTitle("Zinc Air", for: .normal)
                         Answer3Correct = true
                  case 6:
                         QuestionLabel.text = "Which of the following files is the virtual
memory swap file needed to boot Windows 2000/XP?'
                         Answer1.setTitle("Pagefile.sys", for: .normal)
                        Answer2.setTitle("Hal.dll", for: .normal)
Answer3.setTitle("Kernel32.dll", for: .normal)
                         Answer4.setTitle("Himem.sys", for: .normal)
                         Answer1Correct = true
                  case 7:
                         QuestionLabel.text = "What is the first cache the CPU uses?"
                        Answer1.setTitle("L1 memory", for: .normal)
Answer2.setTitle("L2 memory", for: .normal)
Answer3.setTitle("L3 memory", for: .normal)
                         Answer4.setTitle("L4 memory", for: .normal)
                         Answer1Correct = true
                  case 8:
                         QuestionLabel.text = "A CMOS virus is an example of this type of
virus"
                         Answer1.setTitle("Boot-sector", for: .normal)
                        Answer2.setTitle("Trojan", for: .normal)
Answer3.setTitle("iMule Infector", for: .
Answer4.setTitle("Malware", for: .normal)
                                                                            ", for: .normal)
                         Answer1Correct = true
                  case 9:
                         QuestionLabel.text = "What is required when hazardous materials change
                        Answer1.setTitle("an MSDS", for: .normal)
Answer2.setTitle("a DSMS", for: .normal)
Answer3.setTitle("an HDMI", for: .normal)
Answer4.setTitle("an HTML.", for: .normal)
                         Answer1Correct = true
                  case 10:
                         QuestionLabel.text = "Which version of Win XP only uses the Itanium
processors"
                        Answer1.setTitle("Windows XP 8-bit Edition", for: .normal)
                        Answer2.setTitle("Windows XP 16-bit Edition", for: .normal)
Answer3.setTitle("Windows XP 32-bit Edition", for: .normal)
Answer4.setTitle("Windows XP 64-bit Edition", for: .normal)
                         Answer4Correct = true
                  case 11:
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QuestionLabel.text = "The detailed view of a stock offering that must
                  Answer1.setTitle("prospectusc", for: .normal)
                 Answer2.setTitle("registration statement", for: .normal)
                  Answer3.setTitle("financial statement", for: .normal)
                 Answer4.setTitle("commerce clause", for: .normal)
                  Answer1Correct = true
             case 12:
                  QuestionLabel.text = "Windows Advanced Server can support up to"
                  Answer1.setTitle("8 symmetrical processors and 8M of memory", for:
.normal)
                 Answer2.setTitle("4 symmetrical processors and 8M of memory", for:
.normal)
                 Answer3.setTitle("8 asymmetrical processors and 8GB of memory", for:
.normal)
                 Answer4.setTitle("4 asymmetrical processors and 4GB of memory", for:
.normal)
                 Answer1Correct = true
             default:
                 break
             randomQuestionArray.remove(at: randomIndex)
        if (randomQuestionArray.count < 1) {</pre>
{ 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
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Answer4.isEnabled = false
}

// 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
    Answer4Correct = false
    RandomQuestions()
}
```