PYTHON SOLUTIONS TO QUIZ APPS

BASIC QUIZ APP

quiz_basic.py

```
'''
This is the "BASIC" version of the quiz app. Students will create a quiz variable and intialialize it to a list
containing lists of questions and answers. Students will create a function called "quizzer" that will process the items
in their quiz variable by asking the question and checking the user answer. The question and answer variables are their
just to make the code easier for the beginning student to read.
'''

sports_quiz = [["What is Mickey Mantle's number?","7"],["How many home runs did Aaron Judge hit this year?","62"],
["What is Tom Brady's jersey number?", "12"], ["How many NFL games does each team play in the regular season?", "17"],
["What is Lebron James's jersey number?", "6"]]


def quizzer(quiz):

    question =0
    answer = 1
    score = 0

    for item in quiz:
       print("Question: " + item[question])

       user_response = input("Answer: ")

       if user_response == item[answer]:
        score = score + 1
        print("Correct!")
        print(" ")
       else:
        print("Incorrect")
        print(" ")

    print("Your score is: " + str(score))



quizzer(sports_quiz)

```

BASIC QUIZ APP

INTERMEDIATE QUIZ APP

quiz.py

```
'''
This is the "INTERMEDIATE" version of the quiz app. It builds upon the basic quiz app with additional functionality. In this version, students will create a "score" variable and a "question_number" variable. These variables are made to just make it more like an actual quiz with the score variable being set to 0 and the user receiving points for every correct answer. The scoring will be scaffolded by allowing the by allowing students to submit a version where the score increments by 1 or by 100/the length of the quiz. The question number will just increment as each question is asked. Also, if the user gets the question incorrect the program will inform the user of the correct answer. Lastly, the program will report the score after all questions have been answered.
'''

sports_quiz = [["What is Mickey Mantle's number?","7"],["How many home runs did Aaron Judge hit this year?","62"], ["What is Tom Brady's jersey number?", "12"], ["How many NFL games does each team play in the regular season?", "17"], ["What is Lebron James's jersey number?", "6"], ["How many NBA games does each team play in a season?", "82"], ["What number does Cristiano Ronaldo currently wear?", "7"], ["How many goals has Lionel Messi scored in his career", "785"], ["In football, how many points for a touchdown?", "6"], ["In basketball, how many points for a free throw?", "1"]]


def quizzer(quiz):
    question_num = 1
    score = 0
    question =0
    answer = 1

    for item in quiz:
       print("Question " + str(question_num) +": " + item[question])

       user_response = input("Answer: ")

       if user_response == item[answer]:
        print("Correct!")
        print(" ")
        score = score + 100/len(quiz)
       else:
        print("Incorrect. The correct answer is: " + item[answer])
        print(" ")

       question_num = question_num + 1

    print("Your score is: " + str(int(score)))



quizzer(sports_quiz)

```

INTERMEDIATE QUIZ APP

quiz2.py

```
'''
This is the "ADVANCED" version of the quizz app. This version has all of the functionalities of the previous two
versions, with the only difference being that a new variable "n" is created to keep track of the user's attempts at
answering the current question - the user gets 2 tries to answer the question before getting it wrong and the program
moving to the next question. I'm thinking of adding the last bit of functionality from the quiz app in Snap by making a
list of "acceptable_responses" that will trigger a correct response.
'''
sports_quiz = [["What is Mickey Mantle's number?","7"],["How many home runs did Aaron Judge hit this year?","62"],
["What is Tom Brady's jersey number?", "12"], ["How many NFL games does each team play in the regular season?", "17"],
["What is Lebron James's jersey number?", "6"], ["How many NBA games does each team play in a season?", "82"], ["What
number does Cristiano Ronaldo currently wear?", "7"], ["How many goals has Lionel Messi scored in his career", "785"],
["In football, how many points for a touchdown?", "6"], ["In basketball, how many points for a free throw?", "1"]]

def quizzer(quiz):
  question_num = 1
  score = 0
  question =0
  answer = 1
  n = 0

  for quiz_item in quiz:
      print("Question " + str(question_num) +": " + quiz_item[question])

      user_response = input("Answer: ")

      while n < 1:
          n = n + 1
          if user_response != quiz_item[answer]:
           print("Incorrect, try again...")
           print(" ")
           print("Question " + str(question_num) +": " + quiz_item[question])
           user_response = input("Answer: ")

      if user_response == quiz_item[answer]:
        print("Correct!")
        print(" ")
        score = score + 100/len(quiz)
        n = 0
      else:
        print("Incorrect. The correct answer is: " + quiz_item[answer])
        print(" ")
        n = 0

      question_num = question_num + 1

  print("Your score is: " + str(int(score)))


quizzer(sports_quiz)

```

ADVANCED QUIZ APP

quiz4.py

```
sports_quiz = [["What is Mickey Mantle's number?","7",["seven", "Seven"]],["How many home runs did Aaron Judge hit this year?","62",["sixty two", "sixty-two", "Sixty two", "Sixty Two"]], ["What is Tom Brady's jersey number?", "12", ["Twelve", "twelve"]], ["How many NFL games does each team play in the regular season?", "17",["seventeen", "Seventeen"]], ["What is Lebron James's jersey number?", "6", ["six", "Six"]]]


def quizzer(quiz):
  acceptable_responses = 2
  question_num = 1
  score = 0
  question =0
  answer = 1
  n = 0
  j = True

  for quiz_item in quiz:
      print("Question " + str(question_num) +": " + quiz_item[question])

      user_response = input("Answer: ")

      for items in quiz_item[acceptable_responses]:
         if user_response == quiz_item[answer] or user_response == items:
            print("Correct!")
            print(" ")
            score = score + 100/len(quiz)
            n = 0
            j = True
            break
         else:
            j = False

         while j == False and n < 1:
           n += 1
           print("Incorrect, try again...")
           print(" ")
           print("Question " + str(question_num) +": " + quiz_item[question])
           user_response = input("Answer: ")

      question_num += 1

      if n == 1:
        print("Incorrect. The correct answer is: " + quiz_item[answer])
        print(" ")
        n = 0

  print("Your score is: " + str(int(score)))


quizzer(sports_quiz)

```

QUIZ CHALLENGE