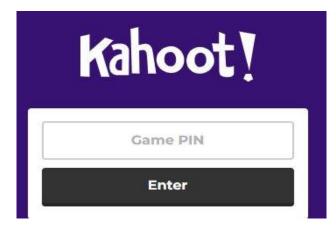
Introduction

Multiple Choice Quiz based on Kahoot -Kapuut Karbon Kopy

- User input for name
- A list of questions and multiple choice answers
- Answer choices are usually colored red, blue, green
- and yellow
- Score at end
- Leaderboard
- A way to start and end game
- timer



Main Page

```
PROBLEMS (5) OUTPUT DEBUG CONSOLE TERMINAL

(kapuut-venv) root@LAPTOP-1KNVNONV:/mnt/c/Users/jacob/OneDrive/Desktop/Jacob lee_T1A3# python3 main Welcome to Kapuut! The Kahoot karbon kopy multiple choice quiz game made in Python!!!

Please choose from one of the following options:

1)Start the Game 7

2)View Leaderboard 7
```

```
main.py > ...
   from colorama import Fore, Style
   from colored import fg, bg, attr
   from rich.console import Console
   import emoji
   console = Console()
   # Try to import the run quiz and view leaderboard functions from the quiz module
   try:
       from quiz import run quiz, view leaderboard
   # If the quiz module cannot be imported, print error message
   except ImportError:
       print("Error: Could not import quiz module.")
   # Define a function called print menu that prints the game menu. Use Colorama package for color. Rich package for emojis.
   def print menu():
       print(Fore.BLUE + "Welcome to Kapuut! 🌶 The Kahoot karbon kopy multiple choice quiz game made in Python!!!" + Style.RESET_ALL)
       print("Please choose from one of the following options: \")
       print(Fore.YELLOW + "1)" + Fore.YELLOW + "Start the Game (")
       print(Fore.GREEN + "2)" + Fore.GREEN + "View Leaderboard ")
       print(Fore.RED + "3)" + Fore.RED + "Exit the Game X " + Style.RESET ALL)
```

```
def main menu():
   while True:
       # Call the print menu function to display menu
       print menu()
       choice = input("Enter your choice (1-3): ")
       try:
           # If user chose option 1, start the game
           if choice == "1":
              play again = start game()
              if not play again:
                   print(Fore.GREEN + "Thank you for playing Kapuut! Hope to see you back here real soon" + Style.RESET_ALL)
                   print(emoji.emojize(":grinning face with big eyes:"))
                   break
              # If user chose option 2, view leaderboard
           elif choice == "2":
               view leaderboard()
               # If user chose option 3, thank them and break out of loop
           elif choice == "3":
               print(Fore.YELLOW + "Thank you for playing hope to see you soon!!!" + Style.RESET ALL)
               print(emoji.emojize(":grinning face with big eyes:"))
               hreak
           else:
               raise ValueError(
                                  (kapuut-venv) root@LAPTOP-1KNVNONV:/mnt/c/Users/jacob/OneDrive/Desktop/Jacob lee T1A3# python3 main.py
       except ValueError as e:
                                  Welcome to Kapuut! > The Kahoot karbon kopy multiple choice quiz game made in Python!!!
           print(f"error: {e}")
                                  Please choose from one of the following options:
       except Exception as e:
           print(f"Error: {e}")
                                  1)Start the Game
                                  2) View Leaderboard 😲
                                  3)Exit the Game X
                                  Enter your choice (1-3): 1
                                  Welcome to Kapuut Ouiz Game!
                                  You will be asked 7 multiple choice questions.
                                  You will earn points for each correct answer.
                                  Good luck ALL!!!
```

Enter your name: Jacob

Dictionary

```
import string
#moved this from main.py to dictionary.py - storing the label and answer alternatives with zip() in a dictionary...
dict(zip(string.ascii_lowercase, ["He can start fires with his mind", "Super Speed", "He can turn invisible", "He can control lemmings by whistling"]))
{'a': 'He can start fires with his mind', 'b': 'Super Speed', 'c': 'He can turn invisible', 'd': 'He can control lemmings by whistling'}
dict(zip(string.ascii lowercase, ["Seth MacFarlane", "Brian Peter Green", "Seth Rogan", "Bill Burr"]))
{'a': 'Seth MacFarlane', 'b': 'Brian Peter Green', 'c': 'Seth Rogan', 'd': 'Bill Burr'}
dict(zip(string.ascii lowercase, ["Seven", "One", "Nine", "Five"]))
{'a': 'Seven', 'b': 'One', 'c': 'Nine', 'd': 'Five'}
dict(zip(string.ascii lowercase, ["MacGyver", "Magnum P.I.", "Die Hard", "Harry Potter"]))
"a': 'MacGyver', 'b': 'Magnum P.I.', 'c': 'Die Hard', 'd': 'Harry Potter'
dict(zip(string.ascii lowercase, ["Tae-Jitsu", "Tae-Bo", "Fight Club", "Tang-soo-do"]))
{'a': 'Tae-Jitsu', 'b': 'Tae-Bo', 'c': 'Fight Club', 'd': 'Tang-soo-do',}
dict(zip(string.ascii lowercase, ["Mila Kunis", "Meg Ryan", "Jodie Foster", "Nancy Cartwright"]))
{'a': 'Mila Kunis', 'b': 'Meg Ryan', 'c': 'Jodie Foster', 'd': 'Nancy Cartwright'}
dict(zip(string.ascii lowercase, ["Golf", "Badmington", "Frisbee Golf", "Synchronised Swimming"]))
{'a': 'Golf', 'b': 'Badmington', 'c': 'Frisbee Golf', 'd': 'Synchronised Swimming'}
```

Quiz Questions

```
questions.py > [@] questions dict
         #General knowledge quiz questions and multiple choice answers
51
52
         },
53
         "What is age is the longest recorded age that an elephant has ever lived?": {
54
              "alternatives": ["86 years", "17 years", "49 years", "142 years"],
55
56
              "correct answer": "86 years"
57
58
         "What is a Tarsier?": {
59
             "alternatives": ["A primate", "A bird", "A marsupial", "A lizard"],
60
              "correct answer": "A primate"
61
62
         },
63
         "In darts, what's the most points you can score with a single throw?": {
64
             "alternatives": ["60 points", "20 points", "50 points", "100 points"],
65
             "correct answer": "60 points"
66
```

Run Quiz Function

```
def run quiz():
   try:
       # use input function to prompt the user to enter their name
       name = input("Enter your name: ")
       high score = 0
       leaderboard = []
       # use a while loop to keep running the quiz until the user chooses to stop
       while True:
           score = 0
           num correct = 0
           # use the random sample function to select 7 random questions from the questions dict dictionary
           random questions = random.sample(list(questions dict.items()), 7)
           # use a for loop to iterate over the enumerated random questions list starting from index 1
           for num. (question, data) in enumerate(random questions, start=1):
                question_score, answer_label, correct_answer, labeled_alternatives = play_question(num, question, data)
                score += question score
                if check answer(correct answer, answer label, labeled alternatives):
                   num correct += 1
           high score = update_leaderboard(score, name, high score, leaderboard, num_correct, num)
           print results(num correct, score, len(random questions), high score)
            if input("Do you want to play again? (y/n) ").lower() != 'y':
               break
           # if a ValueError exception is raised during the execution of the try block, print out an error message
   except ValueError as e:
       print(f"Error: {e}")
   except Exception as e:
       print(f"Error: {e}")
       exit()
```

Leaderboard

print("Error: Could not open leaderboard file")

Update leaderboard

```
def update leaderboard(score, player name, high score, leaderboard, num correct, num):
   # check if the leaderboard is empty or if tuple of (score, player name) is greater than the last element in leaderboard
   if not leaderboard or score > leaderboard[-1][0]:
       #open a file called leaderboard.txt in write mode
        with open('leaderboard.txt', 'w') as f:
            # append the tuple to the leaderboard list
            leaderboard.append((score, player name))
            #sort leaderboard list in descending order
           leaderboard.sort(reverse=True)
            # slice leaderboard list to include the top 10 scores or elements only
            leaderboard = leaderboard[:10]
            # create a new list of formatted strings for each element in leaderboard list
            leaderboard = [f"{score},{name}" for score, name in leaderboard]
            # writes the elements of the leaderboard list to the file seperated by newlines and add a newline at the end
            f.write('\n'.join(leaderboard) + '\n')
        if score > high score:
           high score = score
           print("Wow! You got a high score!! Congratulations!!!")
   return high score
```

REVIEW

```
Who provides the voice of Peter Griffin??
```

- a) Seth MacFarlane
- b) Bill Burr
- c) Brian Peter Green
- d) Seth Rogan

Choice?a

Correct!

Wow! You got a high score!! Congratulations!!!

You got 7 correct out of 7 questions you got 4865 points high score is 4865

Do you want to play again? (y/n)

Issues - Scoring - The score states 7 out of 7 correct, even if you answer a question wrong, and gives you max score of 7x695 so everyone gets a high score essentially

Modulising the code and defining functions

Pytest

Timer - no go