

USCS23 Assignment 1 Report

Project Name:

Trivial Triumph

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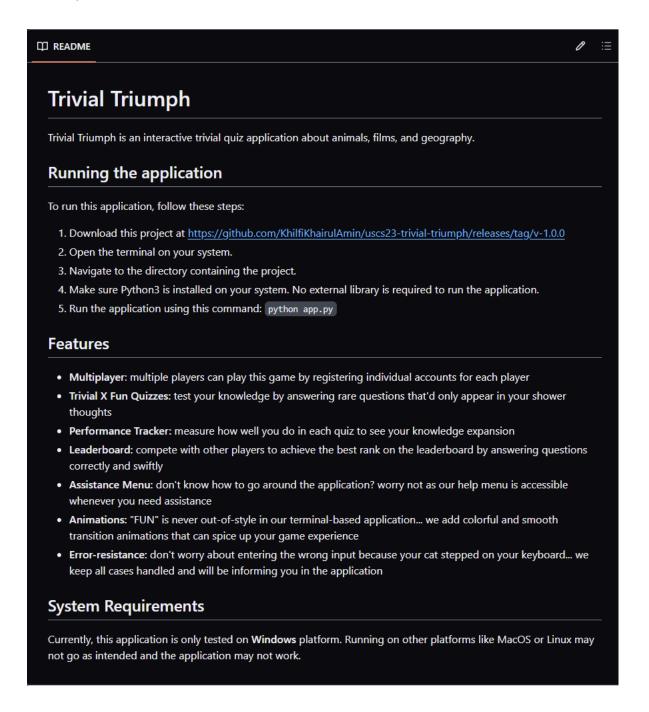
Introduction

In today's fast-paced digital landscape, engaging individuals in meaningful learning experiences presents a significant challenge. Traditional methods often struggle to compete with modern distractions, leaving a gap in entertaining educational resources. This report explores the development of Trivial Triumph, a terminal-based trivial guiz Python application as a solution to this problem.

The proliferation of digital distractions to broad educational resources have led to a decline in knowledge retention and engagement. By offering a convenient and gamified learning platform accessible via the old-school terminal interfaces, Trivial Triumph quiz application seeks to bridge this gap. In this report, we'll explore the guides towards using the application, and the technical implementations behind the application.

README File

The README file of this project contains the necessary information about this application, how to run the application on the user's system, the features included inside this application, and the system requirements for this application to run properly on the user's machine.



The full project can be downloaded at our GitHub repository of Trivial Triumph.

Selected Codes

This section will cover important parts of the application source code. Each piece of significant code sections will be explained thoroughly to explain the flow and magic behind this application. We'll only examine some parts of the application codes, thus, the trivial code sections aren't explained. You can examine the whole codebase at our GitHub repository of Trivial Triumph.

1. quiz.py

This Python script, named quiz.py, manages quiz logics and scoring.

Imports

The script imports various functions from external modules db and ui that contain functions for loading questions from a database and handling user interface interactions.

```
Program: quiz.py
Author: Trivial Triumph Devs
Provide quiz algorithms for handling quiz logics and scoring
"""

from db import load_mcq_questions, load_tf_questions,
load_matching_questions, load_FIB_questions, load_sub_questions
from ui import center, error, fill, prompt, prompt_choice, success
import random
```

Function Definition

1. quizEasy:

This function is an easy mode quiz. It loads 3 types of questions (MCQ, True/False, Matching) and calls respective functions to conduct the quiz. If the total score of the user more than 9, user will have the chance to play the hard mode, which includes Fill in the Blanks and Subjective questions.

```
def quizEasy():
    questionsMCQ = load_mcq_questions()
```

```
questionsTF = load tf questions()
questionsMatch = load matching questions()
questionsFIB = load FIB questions()
questionsSub = load sub questions()
score = 0
score += quizEasy MCQ(questionsMCQ, number of questions=3)
score += quizEasy_TF(questionsTF, number_of_questions=3)
score += quizEasy Match(questionsMatch, number of questions=3)
fill("*")
center()
if score > 9:
   center("HARD MODE (5marks)", col="\033[91m")
    score += quizHard FIB(questionsFIB, number of questions=3)
   score += quizHard Sub(questionsSub, number of questions=3)
   center("EASY MODE (2marks)", col="\033[36m")
   score += quizEasy MCQ(questionsMCQ, number of questions=2)
   score += quizEasy TF(questionsTF, number of questions=2)
   score += quizEasy Match(questionsMatch, number of questions=2)
return score
```

2. quizEasy_MCQ, quizEasy_TF, quizEasy_Match, quizHard_FIB, quizHard_Sub:

These functions handle specific types of questions (Multiple Choice, True/False, Matching, Fill in the Blanks, Subjective). They present questions to the user, accept their answers, and calculate the score.

```
def quizEasy_MCQ(questionsMCQ: list, number_of_questions=3):
    center("MULTIPLE CHOICE QUESTIONS", end="\n\n\n", col="\033[33m")

    score = 0
    for count in range(1, number_of_questions+1):
        questionsNo = random.randint(0, len(questionsMCQ)-1)

        question, options, answer = questionsMCQ[questionsNo]
        center(f"{count}. {question}")
        for option in options:
```

```
center(option)
        center()
                userAnswer = prompt choice(prompt message="Enter your
answer <A, B, C, D>: ", choices=["A", "a", "B", "b<mark>"</mark>, "C", "c", "D",
"d"], input width=2).lower()
                center()
            except ValueError as err:
                error(err)
        if userAnswer == answer:
            score += 2
            success("Correct!\n")
            error("Incorrect.\n")
        questionsMCQ.pop(questionsNo)
    return score
def quizEasy TF(questionsTF: list, number of questions=3):
   score = 0
   for count in range(1, number of questions+1):
        questionsNo = random.randint(0, len(questionsTF)-1)
        question, answer = questionsTF[questionsNo]
        center(f"{count}. {question}\n")
        userAnswer = prompt choice(prompt message="Enter your answer
input width=6).lower()
        center()
        if userAnswer == answer:
            score += 2
            success("Correct!\n")
```

```
else:
        questionsTF.pop(questionsNo)
    return score
def quizEasy_Match(questionsMatch: list, number_of_questions=3):
   score = 0
    for count in range(1, number_of_questions+1):
their answers \langle 1, 2, 3 \rangle.\n")
        questionsNo = random.randint(0, len(questionsMatch)-1)
        match = questionsMatch[questionsNo]
        correct answers = [1, 2, 3]
        question map = {
            correct answers[0]: match[0][1],
            correct answers[1]: match[1][1],
            correct answers[2]: match[2][1],
        for i in range(3):
            center(f"%80s ({chr(65+i)})\t({i+1}) %-80s\n" %
(match[i][0], question map[i+1]))
        center()
        correct = 0
        for j in range(3):
            while True:
                trv:
                    answer = prompt choice(f"({chr(65+j)}) -> ",
choices=[1, 2, 3])
                    center()
```

```
break
                     error(err)
            if answer == str(correct answers[j]):
                 correct += 1
                 error("Incorrect!\n")
        if correct == 3:
            score += 2
        elif correct == 2:
            score += 1
        questionsMatch.pop(questionsNo)
def quizHard FIB(questionsFIB, number of questions=3):
\overline{\text{col}} = \text{"} \setminus 033 [33m]")
    for count in range (1, number of questions+1):
        questionsNo = random.randint(0, len(questionsFIB)-1)
        question, answer = questionsFIB[questionsNo]
        center(f"{count}. {question}\n")
        userAnswer = prompt("Answer: ", 10).lower()
        center()
        if userAnswer == answer:
            score += 5
            success("Correct!!\n")
            error("Incorrect.\n")
        questionsFIB.pop(questionsNo)
    return score
```

```
def quizHard_Sub(questionsSub, number_of_questions=3):
    center("SUBJECTIVE QUESTIONS", end="\n\n\n", col="\033[33m")

score = 0
for count in range (1, number_of_questions+1):
    questionsNo = random.randint(0, len(questionsSub)-1)

question, answer = questionsSub[questionsNo]
    center(f"{count}. {question}\n")
    userAnswer = prompt("Answer: ", 10).lower()
    center()
    if userAnswer == answer:
        score += 5
        success("Correct!!\n")
    else:
        error("Incorrect.\n")

questionsSub.pop(questionsNo)

return score
```

2. menus.py

This file named menus.py provides the menus for the quiz application. It integrates the validation process, file operations, quiz algorithms, and user interfaces to make smoothly working menus.

Imports

These modules are imported inside this file. The time menu is a built-in module in Python. The other modules (auth, db, quiz, ui) are modules we made for the applications. No external online modules are used by the application.

```
import time
from auth import sign_up, log_in
from db import save_users_data, get_users_data
from quiz import quizEasy
from ui import clear, countdown, display_header, center, fill,
good_game, prompt, prompt_choice, display_header_cinematic
```

Function Definitions

1. sign_up_menu, log_in_menu:

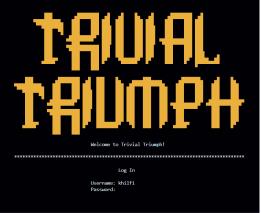
These menus serve as interfaces and validators to authorize users based on username and password input. A set of rules are applied to input validation to make sure the application can display and store them. If the user is authorized successfully, a new account will be created and stored (for sign_up_menu only) and then the current username will be stored inside a global variable as a passkey of the user for the current session.

```
def sign_up_menu():
    """
    Sign up menu
    """
    # Display header of login menu
    display_header()
    center("Sign Up\n")

global Users, CurUser
while True:
    username = prompt("Username: ")
    password = prompt("Password: ", hidden=True)
```

```
repeat_password = prompt("Repeat password: ",
hidden=True, input width=24)
   CurUser = sign up(username, password, repeat password,
Users)
   if not CurUser: continue
   save users data(Users)
   return HOME MENU # Go to home menu
def login menu():
 Log in menu
 display header()
 center("Log In\n")
 while True:
   username = prompt("Username: ")
   password = prompt("Password: ", hidden=True)
   global CurUser, Users
   CurUser = log in(username, password, Users)
   if not CurUser: continue
```





2. quiz_menu:

This menu is the heart of the application. It handles quiz execution and manages scores and other data while the quiz is being played by the user. It also incorporates colorful and smooth animations to improve the gaming experience of the player. Lastly, it calculates, displays, and stores the overall score, time taken, highest personal score, and leaderboard rank.

```
def quiz menu():
 Handles Quiz display and flow
 clear()
 center("Trivial Triumph", col="\033[33m")
 fill("*")
 center()
 center("You will answer 15 fun trivial questions.")
   center("If you answer some of the first 9 questions
correctly, you stand a chance on doubling marks in HARD
MODE.")
   center ("There are MCQ, True/False, Matching, Fill The
Blanks, and Subjective questions.", end="\n\n")
   prompt("Press Enter when you're ready!", input width=0,
hidden=True)
 countdown()
 display header(subtitle="Happy Answering!")
 start = time.time() # Record starting time
 score = quizEasy() # Run the quiz
 end = time.time() # Record finishing time
 time taken = int(end - start)
 if Users[CurUser][1] == -1:
   is new high score = True
 else:
        is new high score = score > max([x[0] for x])
Users[CurUser][1:]])
 # Store new score
```

```
if Users[CurUser][1] != -1:
   Users[CurUser].append((score, time taken))
 else:
   Users[CurUser][1] = (score, time taken)
 save_users_data(Users)
 fill("*")
 center("END OF QUIZ", col="\033[33m")
 time.sleep(1)
 good game ()
    prompt("Press Enter to see result\n", hidden=True,
input width=0)
 fill("*")
 center()
 center("RESULT", col="\033[33m", end="\n'n")
 center(f"Quiz completed!", end="\n\n")
  if is new high score: center(f"NEW PERSONAL HIGH SCORE!",
col="\033[32m")
 center(f"Your score is: {score} / 48")
 center(f"Time taken: {time taken} seconds", end="\n\n")
 fill("*")
 prompt("Back to Home...\n", hidden=True, input width=0)
 return HOME MENU # Go to home menu
```



3. leaderboard_menu, player_statistics_menu:

These menus are what make the quiz more purposeful. Leaderboard menus display the current ranking of the best players; it makes the quiz more

competitive among players. The statistics menu allows the player to keep track of their performances and stores all the quizzes that they have played. It can make sure players improve overtime through this application, and their knowledge can be expanded effectively.

```
def leaderboard menu():
 Leaderboard menu
 11 11 11
 users = get users data()
 display_header(subtitle="Top 10 Players' Highest Marks")
 # Filter from player that hasn't played any matches
 remove list = []
  for k in users.keys():
   if users[k][1] == -1:
      remove list.append(k)
 for k in remove list:
   users.pop(k)
     sorted users = sorted(users.items(), key=lambda
(\max([score[0] for score in x[1][1:]]), \min([-time[1]
time in x[1][1:]])), reverse=True)
 center("Leaderboard", col="\033[33m", end="\n\n")
  center ("Rank
                                        Highest Score
                                                          Time
                    Name
Taken")
                                                             in
                    rank,
                                (username,
                                               scores)
enumerate(sorted users[:10], 1):
      sorted scores = sorted(scores[1:], key=lambda x: (x[0],
x[1]), reverse=True)
      highest_score, lowest_time = sorted_scores[0]
                     %-12s
                              %-2d / 48
      center("%4d
 (rank, username, highest score, lowest time))
 center(end="\n\n\n")
 fill("*")
```

```
prompt("Press Enter to return to Home...\n", hidden=True,
input width=0)
def player statistics menu():
  Generate and display statistics about the user performance
based on matches, scores, and time.
 clear()
 center("Player Stats", col="\033[33m")
 center()
 fill("*")
 center()
   matches played = 0 if Users[CurUser][1] == -1 else
len(Users[CurUser][1:])
 center(f"Username: {CurUser}", col="\033[33m")
 center(f"Matches Played: {matches played}", end="\n\n")
 if matches played == 0:
    center("No data available. Play at least one match to see
statistics.")
 else:
   center("+----+")
   center("| Match | Score | Time taken | Speed |")
   center("+----+")
   count = 0
   total score = 0
   total time = 0
   highest score = 0
   for score, time in Users[CurUser][1:]:
     center("|\$7d|\$4d/48|\$10d s|\$5.2f |" \$ (count+1, score,
time, time / 15))
     center("+----+")
     count += 1
```

```
total_score += score
   total_time += time
   if score > highest_score:
      highest_score = score

center()
   center(f"Average Score: {round(total_score / count, 2)}")
      center(f"Average Time Taken: {round(total_time / count,
2)} s")
   center(f"Best Score: {highest_score}/48", col="\033[32m")

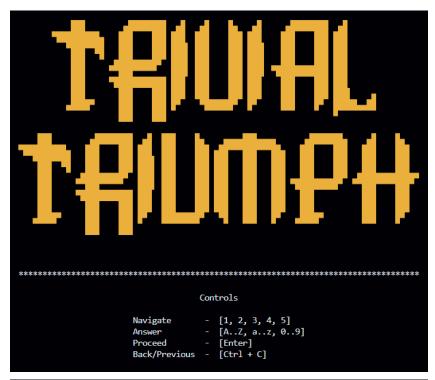
center()
fill("*")
center()
prompt("Back to Home\n", input_width=1, hidden=True)
return HOME_MENU
```



4. help_menu, exit_menu, exit_modal:

These menus serve as assistance that makes the user experience top-notch. The help menu displays the associated controls in this application to help them navigate and use the application smoothly. The exit menu and modal serve as a way for the user to quit the application. Exit modal will ask for confirmation before the user quits to avoid accidental quits by the user. We also exploit the KeyboardInterrupt error (when the user presses Ctrl+C) as a feature in our application such that when the user presses Ctrl+C keys, they can go back to the previous menu or quit the application instead of encountering the error.

```
def help_menu():
 Show helpful controls to navigate through the app
 11 11 11
 display header("")
 center("Controls", end="\n\n")
 center("Navigate
 center("Answer
                        - [A..Z, a..z, 0..9]")
 center("Proceed
                                              ")
                        - [Enter]
 center("Back/Previous - [Ctrl + C]
                                              ")
 prompt("Back to Home...\n", hidden=True, input width=1)
def exit menu():
 11 11 11
 Clear the whole application texts when exit application
 clear()
def exit modal(message="Are you sure you want to quit?"):
    Prompt confirmation from user whether to exit the
application or not.
 try:
   clear()
   center("[1] No [2] Yes")
   center()
   choice = int(prompt choice(">", choices=[1, 2]))
   if choice == 1:
     return False
   elif choice == 2:
     return True
 except KeyboardInterrupt:
   return False
```



Are you sure you want to quit?

[1] No [2] Yes

>

3. db.py

This Python program, named db.py, serves as an interface for database operations.

Constant

- 1. **CWD:** Stores the current working directory path.
- 2. **USER_DATA_FILE:** Specifies the path to the file where user data is stored (users.txt).
- 3. **QUESTIONS_FOLDER:** Specifies the path to the folder containing all quiz questions.

```
from os import getcwd

# Store current working directory for file reference

CWD = getcwd()

# Path to file where the users data are stored

USER_DATA_FILE = "users.txt"

# Path to folder containing all questions

QUESTIONS_FOLDER = f"{CWD}\questions"
```

Functions

- get_users_data(): Reads user data from the users.txt file. If the file is not found, it creates a new one with a header and returns an empty dictionary. It then parses the data into a dictionary format and returns it.
- 2. **save_users_data(users: dict):** Writes user data from a dictionary back to the users.txt file. It formats the data and writes it line by line.

```
def get_users_data():
    """
    Read users data from users.txt
    """
    try:
      # Open the database file
      f = open(USER_DATA_FILE, "r")
    except FileNotFoundError:
    # When file is not found, create new file
```

```
new f = open(USER DATA FILE, "w")
    new f.close()
    f = open(USER DATA FILE, "r")
 users = {}
 for line in f:
   raw = line.strip()
   username, password, *scores_time = raw.split(",")
   if scores time[0] == "-1":
        users[username] = [password, -1]
        scores time = [s.split("-") for s in scores time]
        scores time = [tuple([int(s[0]), int(s[1])]) for s in
scores time]
        users[username] = [password] + scores time
  return users
def save users data(users: dict):
  f = open(USER DATA FILE, "w")
 for username, data in users.items():
    if data[1] == -1:
        raw += f''{username},{data[0]},-1\n"
        raw += f"{username}, {data[0]}, {','.join([f'{d[0]}-{d[1]}' for d
in data[1:]])}\n"
  f.write(raw)
```

- 3. Functions to load different types of quiz questions:
 - a. **load_mcq_questions():** Reads Multiple Choice Questions (MCQ) from the mcq.txt file, parses them, and returns a list of tuples containing the questions, options, and correct answers.
 - b. load_tf_questions(): Reads True/False questions from the tf.txt file, parses them, and returns a list of tuples containing the questions and correct answers.
 - c. **load_matching_questions():** Reads Matching questions from the matching.txt file, parses them, and returns a list of lists. Each inner list contains tuples representing question-answer pairs.
 - d. **load_FIB_questions():** Reads Fill-in-the-Blanks questions from the FIB.txt file, parses them, and returns a list of tuples containing the questions and correct answers.
 - e. **load_sub_questions():** Reads Subjective questions from the sub.txt file, parses them, and returns a list of tuples containing the questions and correct answers.

```
def load_mcq_questions():
    """
    Read MCQ questions and answers in mcq.txt
    """
    f = open(f"{QUESTIONS_FOLDER}\mcq.txt")

# Skip the first 6 lines which are the sample questions of the file
    for _ in range(6):
        next(f) # Skip the line

mcq = []
    for _ in f:
        question = next(f).strip()
        answers = []
        answers.append(f"A. {next(f).strip()}")
        answers.append(f"B. {next(f).strip()}")
        answers.append(f"C. {next(f).strip()}")
        answers.append(f"D. {next(f).strip()}")
        correct_answer = next(f).strip().lower()
        mcq.append((question, answers, correct_answer))

return mcq

def load_tf_questions():
```

```
f = open(f"{QUESTIONS FOLDER}\\tf.txt")
   for in range(2):
       question = next(f).strip()
       correct answer = next(f).strip().lower()
       tf.append((question, correct_answer))
   return tf
def load matching questions():
   f = open(f"{QUESTIONS FOLDER}\matching.txt")
   for _ in range(3):
       next(f)
       for in range(3):
           question, correct_answer = next(f).strip().split(" -> ")
            m.append((question, correct answer))
       matchings.append(m)
def load FIB questions():
   f = open(f"{QUESTIONS FOLDER}\FIB.txt")
```

```
for in range (2):
        next(f)
    FIB = []
        question = next(f).strip()
        correct answer = next(f).strip().lower()
        FIB.append((question, correct_answer))
    return FIB
def load sub questions():
    f = open(f"{QUESTIONS FOLDER}\sub.txt")
   for in range (2):
       next(f)
    sub = []
        question = next(f).strip()
        correct answer = next(f).strip().lower()
        sub.append((question, correct answer))
    return sub
```

Main Block

A main block is included at the end of the file for testing purposes. It saves sample user data, retrieves it, and prints it along with sample quiz questions of different types.

```
if __name__ == "__main__":
    save_users_data({'yasmin': ['yasmin', (67,100), (100,60)], 'khilfi':
    ['khilfi', -1], 'irfan': ['izerith', -1]})
    print(get_users_data(), end="\n\n\n")
    print(load_mcq_questions(), end="\n\n\n")
    print(load_tf_questions(), end="\n\n\n")
    print(load_matching_questions(), end="\n\n\n")
    print(load_FIB_questions(), end="\n\n\n")
    print(load_sub_questions(), end="\n\n\n")
```

4. app.py

This code represents the main control flow of the quiz application.

Import

The code imports various menu-related functions and constants from the menus module.

Function statement

1. main()

This function initializes variables parent_menu and cur_menu to EXIT and MAIN_MENU. The program enters a loop where it continuously checks the current menu (cur_menu) and executes the corresponding menu function. Depending on the current menu, it sets the cur_menu variable to the next menu to be displayed. If the user presses Ctrl+C, indicating an interruption, the program catches the KeyboardInterrupt exception and resets the cur_menu to the parent_menu.

```
def main():
    """
    Starting point of the application. This function manages the
    state of the application.
    """
    parent_menu = EXIT
    cur_menu = MAIN_MENU

    while True:
        try:
        if cur_menu == MAIN_MENU:
            cur_menu = main_menu()  # Parent menu 1

        elif cur_menu == SIGN_UP:
            parent_menu = MAIN_MENU
```

```
cur_menu = sign_up_menu()
   parent menu = MAIN MENU
  elif cur_menu == HOME_MENU:
 elif cur menu == QUIZ:
   parent menu = HOME MENU
   cur_menu = quiz_menu()
 elif cur menu == LEADERBOARD:
   parent menu = HOME MENU
   cur_menu = leaderboard_menu()
 elif cur_menu == STATISTIC:
   parent menu = HOME MENU
   cur menu = player statistics menu()
 elif cur menu == HELP:
   parent menu = HOME MENU
 elif cur menu == EXIT:
   break
cur menu = parent_menu
```

5. auth.py

This Python script, auth.py, provides functionality for user authentication.

Constants

- 1. **MIN_CHAR_USERNAME** and **MAX_CHAR_USERNAME**: Define the minimum and maximum lengths allowed for a username.
- 2. **MIN_CHAR_PASSWORD** and **MAX_CHAR_PASSWORD**: Define the minimum and maximum lengths allowed for a password.

```
MIN_CHAR_USERNAME = 3

MAX_CHAR_USERNAME = 12

MIN_CHAR_PASSWORD = 3

MAX_CHAR_PASSWORD = 20
```

Functions

sign_up(new_username, new_password, repeat_new_password, users):
 Registers a new user by verifying the provided username and password. It checks if the username meets length and uniqueness criteria, if the password matches the repeated password, and then adds the new user to the users dictionary.

```
def sign_up(new_username: str, new_password: str, repeat_new_password:
    str, users: dict) -> str:
    """
    Register a new user. Returns username if authorized, else return
    empty string. This function automatically assigns the new user data
    into `users` variable if authorization successful.
    """

# Make sure username is at least 3 characters long and maximum 12
    characters long
    if len(new_username) < MIN_CHAR_USERNAME or len(new_username) >
    MAX_CHAR_USERNAME:
        error(f"Username must contain at least {MIN_CHAR_USERNAME} }
    characters and maximum of {MAX_CHAR_USERNAME} characters")
        return ''

# Make sure username is unique
    if new_username in users.keys():
```

```
error("Username already exists")
 temp = new username.replace(" ", "")
 if not temp.isalnum():
  if len(new password) < MIN CHAR PASSWORD or len(new password) >
MAX CHAR PASSWORD:
   error(f"Password must contain at least {MIN CHAR PASSWORD}
 if repeat new password != new password:
 users[new username] = [new password, -1]
```

2. **log_in(username, password, users):** Authenticates an existing user by verifying the provided username and password against the stored user data.

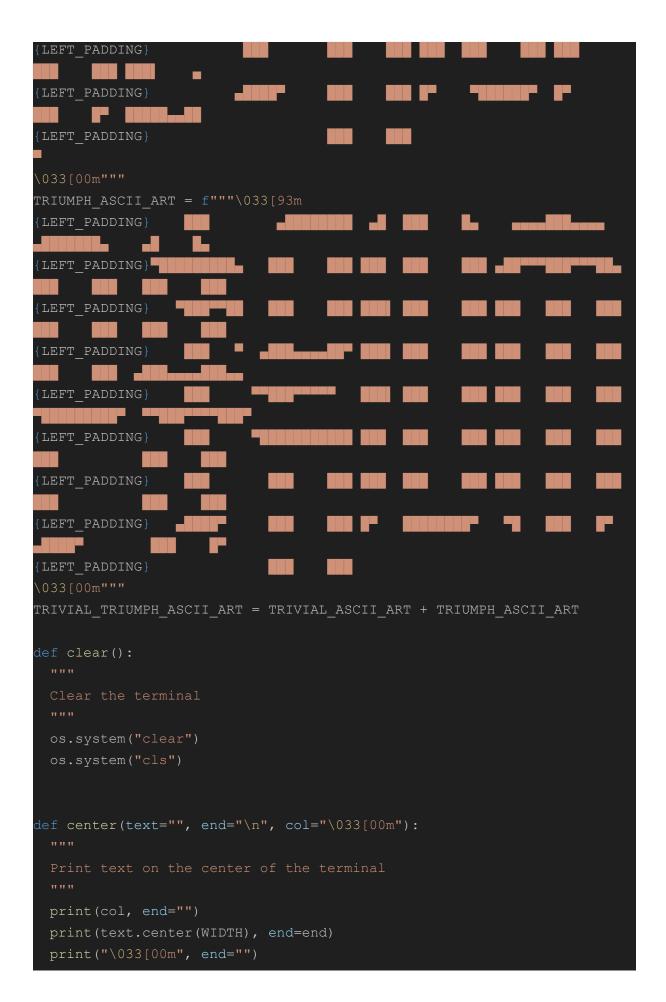
```
def log_in(username: str, password: str, users: dict) -> str:
    """
    Authenticate existing user. Returns username if authorized, else
return empty string.
    """
    # Check username existence
if username not in users.keys():
    error("Username does not exist")
    return ''
```

```
# Verify password
if users[username][0] != password:
  error("Username or password is false")
  return ''
return username
```

6. ui.py

This Python script, ui.py, provides custom functions to enhance the display of text in the terminal for the "Trivial Triumph" quiz application. These constants are used to visually display the title in the terminal. It enhances the user interface of the quiz application by providing visually appealing text display, user input handling, and animation effects.

```
Author: Trivial Triumph Devs
Provide custom functions to display text beautifully in the terminal
from time import sleep
import getpass
WIDTH = os.get terminal size().columns
ASCII ART WIDTH = 84
LEFT PADDING = " " * ((WIDTH - ASCII ART WIDTH) // 2)
LEFT PADDING}
LEFT PADDING}
 LEFT PADDING}
 LEFT PADDING}
 LEFT PADDING}
LEFT PADDING}
```



```
sleep(0.1)
def fill(char):
def prompt(prompt message="", input width=18, hidden=False) -> str:
 if hidden: return getpass.getpass(prompt message.center(WIDTH -
input width).rstrip()+" ") # Password input
 else: return input(prompt message.center(WIDTH -
input width).rstrip()+" ") # Normal input
def prompt choice(prompt_message="", choices = [0, 1], input_width=2)
-> str:
   choice = prompt(prompt message, input width)
     error("Invalid choice")
def display header(subtitle="Welcome to Trivial Triumph!"):
 clear()
 print(TRIVIAL ASCII ART, end="")
  sleep(0.1)
```

```
print(TRIUMPH ASCII ART)
 sleep(0.1)
 center(f"{subtitle}\n")
 fill("*")
 print()
def display_header_cinematic(subtitle="Welcome to Trivial Triumph!"):
 clear()
 sleep(1)
 print(TRIVIAL ASCII ART, end="")
 sleep(1.5)
 print(TRIUMPH ASCII ART)
 sleep(1.5)
 center(f"{subtitle}\n")
 sleep(1.7)
 fill("*")
 print()
def error(text=""):
 center(f"{text}", end="", col="\033[91m")
 print("\033[00m\n")
def success(text=""):
 center(f"{text}", end="", col="\033[32m")
 print("\033[00m\n")
def countdown():
 LEFT PADDING = " " \star ((WIDTH - 38) // 2)
```

```
clear()
 print("\033[33m")
 SKIP ROW = "\n" * 5
 print(f"""{SKIP ROW}
[LEFT PADDING]
LEFT PADDING}
LEFT PADDING}
LEFT PADDING}
LEFT PADDING}
[LEFT PADDING]
LEFT PADDING}
[LEFT PADDING]
[LEFT PADDING]
[LEFT PADDING]
[LEFT PADDING]
[LEFT PADDING]
{LEFT PADDING}
LEFT PADDING}
sleep(1)
clear()
print(f"""{SKIP ROW}
[LEFT PADDING]
[LEFT PADDING]
[LEFT PADDING]
[LEFT PADDING]
LEFT PADDING}
LEFT PADDING}
[LEFT PADDING]
LEFT PADDING}
LEFT PADDING}
LEFT PADDING}
[LEFT PADDING]
[LEFT PADDING]
[LEFT PADDING]
 sleep(1.2)
clear()
print(f"""{SKIP ROW}
{LEFT PADDING}
[LEFT PADDING]
[LEFT PADDING]
LEFT PADDING}
```

```
LEFT PADDING}
LEFT PADDING}
[LEFT PADDING]
LEFT PADDING}
LEFT PADDING}
LEFT PADDING}
LEFT PADDING}
[LEFT PADDING]
 sleep(1.2)
 clear()
 print(f"""{SKIP_ROW}
LEFT PADDING}
LEFT PADDING}
LEFT PADDING } ,---..
[LEFT PADDING]/
[LEFT PADDING]|
[LEFT PADDING].
[LEFT PADDING] : |.' .' .
LEFT PADDING }'
LEFT PADDING } '
LEFT PADDING} |
LEFT PADDING } \
LEFT PADDING } `---`
 sleep(1)
 clear()
 print("\033[00m")
def good game():
 SKIP = "\n" * 5
 GG = f"""{SKIP}
```



Conclusion

In conclusion, the Python program Trivial Triumph offers a robust and user-friendly platform for creating and conducting quizzes. The program's design allows for easy customization and scalability, making it suitable for various educational and recreational purposes. Trivial Triumph stands as a versatile and effective tool for creating and administering quizzes in various contexts, from classroom assessments to online trivia games. Its flexibility, accessibility, and robust functionality make it a valuable asset for educators, quiz enthusiasts, and anyone seeking to engage and challenge their audience. With further development and refinement, Trivial Triumph has the potential to become a leading platform for interactive learning and entertainment.