from threading import Timer  
import random  
  
num\_rounds = 3  
max\_tries = 10  
rounds = 1  
final\_score = 0  
  
print("Welcome to my really useless hangman game!")  
print("Maximum", max\_tries, "tries", sep=" ")  
print("This game goes to", num\_rounds, "rounds")  
print("Remember to type in 'used letters' to see the letters you've already guessed!")  
print("Type 'guess word' if you want to guess the entire word at once, you can risk getting a better score but if you "  
      "get it wrong, you get a score of 0")  
print("Type 'hint' if you're stuck to get a clue, however, it would reduce your score")  
input("hit ENTER to start the game")  
answers = (  
    "CHRISTOPHER", "RYAN", "FELICIANO", "REUBEN", "FISH", "MAGNETISM", "ELECTRICITY", "ENGINEERING", "COLUMBIA",  
    "COLLINS", "DANIEL", "EHIMEN", "JACKBOX", "HUMAN", "DESTINY", "CELEBRATION", "PILLOW", "PIANO", "DELIVERABLE",  
    "WARLORD", "BALENCI", "ETERNAL", "MECHANICAL", "PROCRASTINATION")  
  
while rounds <= num\_rounds:  # allows user to play game for a set number of rounds  
    answer = list(random.choice(answers))  # picks a random word from the list  
    used\_letter\_string = ""  # keeps track of the letters that the user has already guessed  
    dashed\_line = ""  
    count = 0  
    wrong\_counter = 0  
    num\_tries = 0  
    hints\_used = 0  
  
    for letter in answer:  # counts the number of letters in the answer  
        count += 1  
    counter = count  
    while count > 0:  
        dashed\_line += "-"  
        count -= 1  
    count = 0  
    guessed\_answer = [None] \* counter  
    while count < counter:  
        guessed\_answer[count] = "-"  
        count += 1  
    count = counter  
    print("round", rounds)  
    print(dashed\_line)  
  
    while guessed\_answer != answer:  # while loop that evaluates guess  
        print("\n")  
        guess = input("Enter your guess: ")  # asks user for guess  
        num = 0  
        index = 0  
        ans = 0  
        guessed\_word = ""  
        word = 1  
        used\_letter\_string = list(used\_letter\_string)  
  
        indexes = random.randrange(counter-1)  
  
        if guess == "hint":  
            while indexes < counter:  
                if guessed\_answer[indexes] == '-':  
                    guessed\_answer[indexes] = answer[indexes]  
                    break  
                else:  
                    indexes += 1  
                if indexes == counter:  
                    indexes = 0  
            guessed\_answer = ''.join(guessed\_answer)  
            print(guessed\_answer)  
            guessed\_answer = list(guessed\_answer)  
            num\_tries += 1  
            hints\_used += 1  
            if guessed\_answer == answer:  # checks if the letters correctly guessed complete the predetermined answer  
                print("")  
                print("Congratulations!You got the answer!")  
                break  
            else:  
                continue  
  
        answer = ''.join(answer)  
  
        if guess == "guess word":  # evaluates if the guessed word is the answer or not  
            guessed\_word = input("What is your guess for the word? (you lose the round if you get a score of 0): ")  
            guessed\_word = guessed\_word.upper()  
            if guessed\_word != answer:  
                print("You got it wrong :(")  
                print("The answer was: ", answer)  
                word = False  
                break  
            else:  
                print("You got it right!")  
                score = round(len(answer) \* (200 / num\_tries) \* (1 - hints\_used / len(answer)))  
                break  
  
        answer = list(answer)  
  
        used\_letter\_string = list(dict.fromkeys(used\_letter\_string))  # removes duplicates in used letter string  
        if guess == "used letters":  # gives the user the list of the letters that they've already guessed  
            print(used\_letter\_string)  
            guessed\_answer = ''.join(guessed\_answer)  
            print(guessed\_answer)  
            guessed\_answer = list(guessed\_answer)  
            continue  
        used\_letter\_string = "".join(used\_letter\_string)  
  
        guess = guess.upper()  # converts guess to the upper case  
        used\_letter\_string = used\_letter\_string.upper()  
  
        used\_letter\_string = list(used\_letter\_string)  
        while index < len(used\_letter\_string):  # tells the user if they've already guessed the letter before  
            if guess == used\_letter\_string[index]:  
                print("You've already guessed that letter")  
                guessed\_answer = ''.join(guessed\_answer)  
                print(guessed\_answer)  
                guessed\_answer = list(guessed\_answer)  
                ans = True  
                num\_tries += 1  
                break  
            index += 1  
        if ans:  # resets the loop if user entered already used letter  
            continue  
  
        used\_letter\_string = "".join(used\_letter\_string)  
        used\_letter\_string += guess  # adds the guessed letter to the used letters string  
        index = 0  
  
        while index < counter:  # this verifies if the letter guessed is in the answer or not  
            if guess != answer[index]:  
                num = False  
            else:  
                num = True  
                break  
            index += 1  
        if not num:  # if the guess does not appear anywhere, wrong letter message is shown  
            print("Wrong letter")  
            wrong\_counter += 1  
            i = 0  
            while i < wrong\_counter:  # prints the number of X's representing the amount of times you got it wrong  
                print("X ", end="")  
                i += 1  
            print("\n")  
            guessed\_answer = ''.join(guessed\_answer)  
            print(guessed\_answer)  
            guessed\_answer = list(guessed\_answer)  
        else:  # forms new word with the correctly guessed letter  
            index = 0  
            while index < count:  
                if answer[index] == guess:  
                    print(answer[index], end="")  
                    guessed\_answer[index] = answer[index]  
                elif guessed\_answer[index] == "-":  
                    print("-", end="")  
                else:  
                    print(guessed\_answer[index], end="")  
                index += 1  
        num\_tries += 1  
        guessed\_answer = ''.join(guessed\_answer)  
        answer = ''.join(answer)  
        if guessed\_answer == answer:  # checks if the letters correctly guessed complete the predetermined answer  
            print("")  
            print("Congratulations!You got the answer!")  
            break  
        guessed\_answer = list(guessed\_answer)  
  
        if wrong\_counter == max\_tries:  # if wrong counter reaches max count, break from loop and player fails game  
            print("Maximum wrong answers reached, you've failed :(")  
            print("The answer was: ", answer)  
            break  
        answer = list(answer)  
  
    if not word:  
        score = 0  
    else:  
        score = round(len(answer) \* (200 / num\_tries) \* (1 - hints\_used / len(answer)))  
    final\_score += score  
    rounds += 1  
    print("score:", score)  
  
print("final score:", final\_score)  
print("Game finished")