Module 6: Critical Thinking

Driver's License Exam

Nolan Byrnes

CSC500 – Principals of Programming

Colorado State University – Global Campus

Professor Steven Evans

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**Source Code:**

def main():

#Answers to the Exam

answer\_key = extract\_answer\_key('answer\_key.txt')

#Submitted Exam Responses

responses = extract\_answer\_key('ExamResponses.txt')

# Number of questions in Exam

exam\_question\_count = len(answer\_key)

# Number of questions answered

questions\_answered\_count = len(responses)

incorrect\_answer\_count = 0

questions\_wrong = []

i = 0

while i < exam\_question\_count:

try:

correct\_answer = answer\_key[i]

answer = responses[i]

if answer != correct\_answer:

incorrect\_answer\_count +=1

questions\_wrong.append(i+1)

except:

# Prevents index errors

if exam\_question\_count > questions\_answered\_count:

#Question # and response not in the Exam Responses file. Incorrect

incorrect\_answer\_count +=1

questions\_wrong.append(i+1)

i+=1

total\_correct = exam\_question\_count - incorrect\_answer\_count

exam\_score = round((1 - incorrect\_answer\_count / exam\_question\_count) \* 100,2)

print("There were", total\_correct, "questions answered correctly.")

print("There were", incorrect\_answer\_count, "question(s) that were incorrect.")

if incorrect\_answer\_count > 0:

print("The questions that were missed were " + str(questions\_wrong) + ".\n")

print("Final Score: " + str(exam\_score)+"%")

# Determined passing grade as 75% to allow more questions to be added to the exam.

# 15/20 = 75%

if exam\_score >= 75:

print("Congratulations. You passed the exam. Your Driver's License will be mailed to you in 5-10 business days.")

else:

print("You did not pass the exam. Please review the materials, and try again.")

pass

def extract\_answer\_key(file\_path):

key = []

with open(file\_path,'r') as answer\_key:

for answer in answer\_key:

answer = answer.split('.')[1].strip().upper()

key.append(answer)

return key

if \_\_name\_\_ == '\_\_main\_\_' : main()

**Passing Grade:**

Text

Description automatically generated

**Failing Grade:**

**Text

Description automatically generated**

**Exam with 5 questions added:**

**Text

Description automatically generated**