

```
1 import csv, random
2 from termcolor import colored, cprint
3 # bring in csv files that are questions created in google sheets
4 # Each row read from the csv file is returned as a list of strings
5 # will need random to when selecting questions to use
6
7 # create a list from the input files (csv)
8 def get_questions():
9     questions = []
10    with open("rq.csv",mode="r",encoding="utf-8") as my_file:
11        reader = csv.reader(my_file)
12        for row in reader:
13            questions.append(row)
14    return questions
15
16 def ask_question(question,score):
17    print("\n")
18    print(question[0] + "\n")
19    # loop through the rest of the list and print positions 2,3,4,5
20    for multi in question[1:-1]:
21        print("%s" % multi)
22    answer = input("\nPlease select an answer: ")
23    print()
24    # compare answer to the last element in the question list - position 6
25    # this must match exactly
26    if answer == question[-1]:
27        cprint("Correct!", "yellow", attrs=["bold"])
28        score += 1
29    else:
30        cprint("Incorrect! - the correct answer was %s" % question[-1], "red", attrs=["bold"])
31    print()
32    return score
33
34 # test to be sure they are not asking for more questions than exist
35 def validate_input(questions):
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36     number = 0
37     while True:
38         number = int(input("There are %d questions - how many would you like? " % len(questions)))
39         # validate number input to be sure it is not more than possible questions
40         if number > len(questions):
41             cprint("\nNope - not possible - please choose another amount ", "red", attrs=["bold"])
42         else:
43             return(number)
44
45
46 # main body of program
47 questions = get_questions()
48 score = 0
49 print("\nWelcome to our AP Computer Science Principles Quiz")
50 print("=====++++=====\\n")
51 print()
52
53 number = validate_input(questions)
54
55 for next_question in range(number):
56     question = random.choice(questions)
57     score = ask_question(question, score)
58     questions.remove(question)
59
60 cprint("Your final score was %d out of %d\\n" % (score,number), "yellow", attrs=["bold"])
61
62
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