Purpose of Quiz

The purpose of my quiz program is to test and extend Year 11 students' knowledge of Pandora's Box from Greek Mythology.

Style of question (e.g. multiple choice, short answer) A mixture of multiple choice and short answer questions

Example question and answer

What did Aphrodite give to Pandora?

- (a) Mastery over language
- (b) Capacity for deep emotion
- (c) Fine craftmanship and attention to detail
- (d) The trait of curiosity

Scoring system

1 point per question answered correctly.

When quiz ends

The quiz ends when the user has completed all the questions.

Boundary conditions I could test

If a user doesn't enter an answer, prompt them for an input. If the user enters more than 30 characters prompt them for a correct answer.

Testing Schedule							
Stage in Quiz (<u>when</u> during the quiz did you do this test: e.g. Start, each question)	Input (<u>what</u> did you click, type or do)	Expected output (what should happen when you do this)	Test result (pass/fail)	Test result Explanation (did it work? If not, what happened)	Expected, Boundary or Invalid (what type of input were you testing)	Action taken to <u>fix</u> (where needed)	
What is your name?	Blake	Welcome Blake	Pass	The test produced the expected result of "Welcome Blake"	Expected	n/a	
What is your name?	Bob123	Welcome Bob123	Pass	Welcome Bob123 Result as expected. Name not restricted so that the user can enter their gaming name including numbers and charachers.	Expected	n/a	
Question 1	b	Correct, Well done	Pass	The test produced the expected of "Correct, Well done"	Expected	n/a	
Question 1	d D D	Please enter a valid input	Fail	The test produced "Riese enter a valid input" this was incorrect due to a spelling mistake I have now changed it to the intended output of "Please enter a valid input"	Invalid & Boundary (<u>29-character</u> limit) testing 30 characters	Changed <u>plese</u> to please	
Question 1	<u>bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb</u>	Please enter a valid input	Pass	The test produced the expected outcome of "Please enter a valid input"	Invalid & Boundary (<u>29_character</u> limit) testing 30 characters	n/a	
Question 1	<u>, 1999999999999999999999999999999999999</u>	Wrong answer, <u>The</u> answer was: capacity for deep emotion	Pass	Correct as the user entered 29 characters which is valid	Boundary (29 characters is accepted)	n/a	
Question 1	В	Correct, Well done	Pass	Tested spaces on either side of capital B. This is correct because my code takes the input and removes the whitespace on either side of the input and converts the input to lowercase.	Expected	n/a	
Question 1	a	Wrong answer, the answer was: capacity for deep emotion	Pass	The test produced the expected result	Expected	n/a	
Question 1	deep	Wrong answer, the answer was: capacity for deep emotion	Pass	The quiz gives instructions to answer the quest in full or enter the corresponding letter	Expected	n/a	
Question 3	Epimetheus	Correct, Well done	Pass	The test produced the expected result	Expected	n/a	
Question 3	ERIMETHEUS	Correct, Well done	Pass	This is correct because my code converts the input to lowercase to allow for incorrect capitalisation.	Expected	n/a	
Question 3	Prometheus	Wrong answer, the answer was: Epimetheus	Pass	The test produced the expected result	Expected	n/a	
Question 6	5	Correct, Well done	Pass	The test produced the expected result	Expected	n/a	
Question 6	Five	Correct, Well done	Pass	The test produced the expected result	Expected	n/a	
Question 6	5.0	Correct, Well done	Pass	The test produced the expected result	Expected	n/a	
Question 6	5.1	Wrong answer, The answer was:	Pass	The test produced the expected result	Expected	n/a	

		5				
Score	Score is 0 out of $\underline{\mathbf{Z}}$	Well done you have completed the quiz <u>username</u> you got x out of 7	Pass	The test produced the expected result	Expected	n/a
Score	Score is calculated to 0%	You do not know Pandora's Box very well. Do you want to watch the story?	Fail	Traceback error message	Boundary	Miss spelling of variable name in percentage calculation. Corrected error
Score	Score is calculated to 0%	You do not know Pandora's Box very well. Do you want to watch the story?	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Score	Score is 1 out of \underline{Z}	Well done you have completed the quiz <u>username</u> you got 1 out of 7	Pass	The test produced the expected result	Expected	n/a
Score	Score is calculated to 14%	You do not know Pandora's Box very well. Do you want to watch the story?	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Score	Score is 2 out of \underline{I}	Well done you have completed the quiz <u>username</u> you got 2 out of 7	Pass	The test produced the expected result	Expected	n/a
Score	Score is calculated to 29%	You do not know Pandora's Box very well. Do you want to watch the story?	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Score	Score is 3 out of \underline{Z}	Well done you have completed the quiz <u>username</u> you got 3 out of 7	Pass	The test produced the expected result	Expected	n/a
Score	Score is calculated to 43%	You do not know Pandora's Box very well. Do you want to watch the story?	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Score	Score is 4 out of \underline{Z}	Well done you have completed the quiz <u>username</u> you got 4 out of 7	Pass	The test produced the expected result	Expected	n/a
Score	Score is calculated to 57%	Well done you know Pandora's Box quite well	Fail	Incorrect message returned. Message for less than 50% returned.	Boundary	Updated user score to percentage. This makes sure that the message returned is based on the percentage score, not the total out of 7.
Score	Score is calculated to 57%	Well done you know Pandora's Box quite well	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Score	Score is 5 out of \underline{Z}	Well done you have completed the quiz <u>username</u> you got 5 out of 7	Pass	The test produced the expected result	Expected	n/a

Score	Score is calculated to 71%	Well done you know Pandora's Box quite well	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Score	Score is 6 out of <u>Z</u>	Well done you have completed the quiz <u>username</u> you got 6 out of 7	Pass	The test produced the expected result	Expected	n/a
Score	Score is calculated to 85%	Well done you are a Pandora's Box expert	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Score	Score is 7 out of \underline{Z}	Well done you have completed the quiz <u>username</u> you got 7 out of 7	Pass	The test produced the expected result	Expected	n/a
Score	Score is calculated to 100%	Well done you are a Pandora's Box expert	Pass	The test produced the expected result. Boundary testing to check the correct message is returned based on the percentage score	Boundary	n/a
Do you want to watch the video?	Yes	Video plays in web browser	Pass	Video plays	Expected	n/a
Do you want to watch the video?	No	Do you want to play again?	Pass	The test produced the expected result	Expected	n/a
Do you want to watch the video?	x	Invalid input please enter yes or no Ask the question again	Fail	Moved on to the next question. Do you want to play again?	Invalid	Add code to check if it is an accepted input
Do you want to watch the video?	x	Invalid input please enter yes or <u>no</u> Ask the question again	Pass	The test produced the expected result	Invalid	n/a
End Do you want to play again?	l	Invalid input	Fail	Game ends	Invalid	Add a condition to check for a valid input
End Do you want to play again?	no	End game	Fail	Invalid input please enter yes or $\underline{n}\underline{n}$ This is an incorrect message the game should have ended	Expected	Changed 'or' to 'and' in the if statement that checks for a valid input
End Do you want to play again?	l	Invalid input please enter yes or no Ask the question again	Pass	Print: Invalid input please enter yes or no Ask question again	Invalid	n/a
End Do you want to play again?	Yes	Game restarts	Pass	The test produced the expected result	Expected	n/a
End Do you want to play again?	sure	Game restarts	Pass	The test produced the expected result because I have included a list of valid yes responses which includes sure.	Expected	n/a
Start	Start	Game should play	Fail	Quiz would not start	Expected	Error after changing variable names. Fixed by correcting variable name.

Question 2	а	Correct, Well done	Pass	The test produced the expected result	Expected	n/a
Question 2	b	Wrong answer, the answer was: all the forces of evil	Pass	The test produced the expected result	Expected	n/a
Question 4	c	Correct, Well done	Pass	The test produced the expected result	Expected	n/a
Question 4	a	Wrong answer, the answer was: voices whispering	Pass	The test produced the expected result	Expected	n/a
Question 5	d	Correct, Well done	Pass	The test produced the expected result	Expected	n/a
Question 5	a	Wrong answer, the answer was: designer of the natural world	Pass	The test produced the expected result	Expected	n/a
Question 7	a	Correct, Well done	Pass	The test produced the expected result	Expected	n/a
Question 7	b	Wrong answer, the answer was: for giving humans fire	Pass	The test produced the expected result	Expected	n/a

1	#imports the web feature and allows use of the users default web browser	P
2	import webbrowser	
3		
4	#classes enable greater flexibility to add more questions easily in the future	₽
5	#Sets up the class to store the players name and the players score	
6	class Player:	
7	definit(self, name, score):	
8	self.name = name	
9	self.score = score 10	
11	#Sets up class to store the questions and answers for the quiz. A class makes it easier to setup more questions and answers in the future.	P
12	#There are only 2 steps to follow to add extra questions and answers.	
13	class Quiz:	
14	<pre>definit(self, question, answers):</pre>	
15	self.question = question	
16	self.answers = answers 17	
18		
19		
20	#questions stored in a list for greater flexibility.	
21	#Step one to add another question is to add the question to this list.	
22	list_questions = [
23	"What did Aphrodite give to Pandora?\n(a) Mastery over language\n	P
	(b) Capacity for deep emotion\n(c) Fine craftmanship and attention to detail\n(d) The tra	ait ᠵ
	of curiosity\n",	
24	"What was in Pandora's box?\n(a) All the forces of evil\n(b) A portel to hell\n(c) A titan\n(d) Nothing\n",	P
25	"Who did Pandora fall in love with?\n",	
26	"What sound did Pandora hear from the box?\n(a) Music\n(b) Animals \n(c) Voices whispering\n(d) Laughing\n",	₽
27	"What was Epimetheus's job?\n(a) Builder\n(b) God of Fire\n(c) God of Water\n(d) Designer of the natural world\n",	₽
28	"How many Gods helped to create Pandora?\n",	
29	"Why was Prometheus eternally punished?\n(a) For giving humans fire	P
	\n(b) For creating humans\n(c) For falling in love with Pandora\n (d) For giving humans weapons\n"	P
30		
31	1	
32		
33		
34	#stores question and answer data in a list for greater flexibility for adding more questions and/or answers	₽
35	#Step two to setting up new questions is copy and paste the bottom line of this list, update to the next number and put the required answer	P
36	list_questions_answers = [
37	Quiz(list_questions[0], ["capacity for deep emotion", "b"]),	

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- 38 Quiz(list_questions[1], ["all the forces of evil", "a"]),
- 39 Quiz(list_questions[2], ["epimetheus"]),
- 40 Quiz(list_questions[3], ["voices whispering", "c"]),
- 41 Quiz(list_questions[4], ["designer of the natural world", "d"]),

42 Quiz(list_questions[5], ["5", "5.0", "five"]), Quiz(list_questions[6], ["for giving humans fire", 43 "a"])

- 44
- 45]
- 46

47	#list of accepted answers for yes to allow for flexibility in users input	P
48	yes_parameters = ["yes", "y", "ok", "sure"]	
49	#list of accepted answers for no to allow for flexibility in users input	P
50	no_parameters = ["no", "n", "no thanks"] 51	
52	#define function so that this code can be called apon anywhere	
53	def run_quiz_program(list_questions_answers):	
54	#Gets players name and set score to 0	
55	user = Player(input("What is your name?\n") ,0)	
56	print("Welcome", user.name, "\nYou must enter the corresponding letter for your chosen answer or type the full answer.\n")	P
57		
58	#Cycles the game through each question in the quiz until it reaches the end	P
59	for Quiz in list_questions_answers:	
60	#using a loop to ensure user puts an input in instead of just clicking enter	P
61	while True:	
62	#sets input to lowercase, removes whitespace to the left and right of text so that	P
	the user response will be correct when it has incorrect formating	₽
63	user_answer = input(Quiz.question).lower().strip()	
64	#If no answer is given or the answer has more than 30 characters the input is rejected	P
	and the user is asked for a valid input	P
65	If len(user_answer) == 0 or len(user_answer) >= 30:	
66	print("Please enter a valid input\n")	
67	continue	
68	else:	
69	break	
70		
71	#add a point to user score if user answer is correct	
72	If user_answer in Quiz.answers:	
73	user.score += 1	
74	print(Correct, well done(n)	
75	else:	_
70	print(wrong answer, the answer was: , Quiz.answers [0], (n)	P
78	traturns usars score	
70	#returns users score	_
19	str(len(list_questions_answers)),"\n")	P
80		
81	#calculate score percentage. Return comment based on percentage score	P
82	percentage = 100 * float(user.score)/float(str(len	P

(list_questions_answers)))

83		
84	if percentage >= 80:	
85	print("Well done you are a Pandora's Box expert")	
86	elif percentage >= 50:	
87	print("Well done you know Pandora's Box quite well")	
88	else:	
89	#using a loop to ensure the player gives a valid yes/no answer	
90	while True:	
91	<pre>watch_video = input("You do not know Pandora's Box very well. Do you want to watch the story?\nYes/No\n").lower ().strip()</pre>	P P
92	#Check user response against list of possible yes and no answers. If answer is not valid ask the question again. This allows flexibility in the way the user answers yes or no	P P
93	if watch_video not in yes_parameters and watch_video not in no_parameters:	P
94	print("Invalid input please enter yes or no")	
95	continue	
96	elif watch_video in yes_parameters:	
97	webbrowser.open_new("https://www.youtube.com/watch? v=pMdJxVjZMRI")	P
98	print("If the video does not start playing please check your browser")	P
99	break	
100	else:	
101	break	
102		
103		
104	#using a loop to ensure the player gives a valid yes/no answer	
105	while True:	
106	play_again = input("Do you what to play again?\nYes/No \n").lower().strip()	P
107	#Check user response against list of possible yes and no answers. If answer is not valid ask	P
	the question again. This allows flexibility in the way the user answers yes or no	P
108	if play_again not in yes_parameters and play_again not in no_parameters:	P
109	print("Invalid input please enter yes or no")	
110	continue	
111	#if the answer is in the yes list play agin	
112	elif play_again in yes_parameters:	
113	run_quiz_program(list_questions_answers)	
114	break	
115	else:	
116	print("Thank you for playing", user.name)	
117	break	
118		
119		
120	#start the quiz	
121	run_quiz_program(list_questions_answers)	
122		