

```
1 #!/usr/bin/env python3
2 import json
3 import time
4
5 TOPICS_LIST = ['science', 'history', 'commerce', 'technology', 'worldgk']
6 # this list has to in sync with the JSON filename and the Menu prompt inside
   test() method
7
8- def ask_one_question(question):
9     print("\n" + question)
10    choice = input("Enter Your Choice [a/b/c/d]: ")
11-    while(True):
12-        if choice.lower() in ['a', 'b', 'c', 'd']:
13            return choice
14-        else:
15            print("Invalid choice. Enter again")
16            choice = input("Enter Choice [a/b/c/d]: ")
17
18- def score_one_result(key, meta):
19    actual = meta["answer"]
20-    if meta["user_response"].lower() == actual.lower():
21        print("Q. {0} Absolutely Correct!\n".format(key))
22        return 2
23-    else:
24        print("Q. {0} Incorrect!".format(key))
```

^ Wanna test your GK?

A. Yes

B. No

a

Welcome to Today's Quiz!

Choose your domain of interest:

(1). Science

(2). History of India

(3). Commerce

(4). Technology

(5). World Gk

Enter Your Choice [1/2/3/4/5]:



```
25     print("Right Answer is {}".format(actual))
26     print("Learn more : " + meta["more_info"] + "\n")
27     return -1
28
29
30 def test(questions):
31     score = 0
32     print("General Instructions:\n1. Please enter only the choice letter
        corresponding to the correct answer.\n2. Each question carries 2
        points\n3. Wrong answer leads to -1 marks per question\nQuiz will start
        momentarily. Good Luck!\n")
33     time.sleep(10)
34     for key, meta in questions.items():
35         questions[key]["user_response"] = ask_one_question(meta["question"])
36     print("\n***** RESULT *****\n")
37     for key, meta in questions.items():
38         score += score_one_result(key, meta)
39     print("Your Score:", score, "/", (2 * len(questions)))
40
41 def load_question(filename):
42     """
43     loads the questions from the JSON file into a Python dictionary and returns
        it
44     """
45     questions = None
```

```
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```

main.py



Run

Shell

Clear

```
45 questions = None
46 with open(filename, "r") as read_file:
47     questions = json.load(read_file)
48     return (questions)
49
50
51 def play_quiz():
52     flag = False
53     try:
54         choice = int(input("Welcome to Today's Quiz!\nChoose your domain of
            interest:\n(1). Science\n(2). History of India\n(3). Commerce\n(4).
            Technology\n(5). World Gk\nEnter Your Choice [1/2/3/4/5]: "))
55         if choice > len(TOPICS_LIST) or choice < 1:
56             print("Invalid Choice. Enter Again")
57             flag = True # raising flag
58     except ValueError as e:
59         print("Invalid Choice. Enter Again")
60         flag = True # raising a flag
61
62     if not flag:
63         questions = load_question('topics/'+TOPICS_LIST[choice-1]+'.json')
64         test(questions)
65     else:
66         play_quiz() # replay if flag was raised
67
68 def user begin prompt():
```

```
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main.py



Run

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```
61
62- if not flag:
63     questions = load_question('topics/'+TOPICS_LIST[choice-1]+'.json')
64     test(questions)
65- else:
66     play_quiz() # replay if flag was raised
67
68- def user_begin_prompt():
69     print("Wanna test your GK?\nA. Yes\nB. No")
70     play = input()
71-     if play.lower() == 'a' or play.lower() == 'y':
72         play_quiz()
73-     elif play.lower() == 'b':
74         print("Hope you come back soon!")
75-     else:
76         print("Hmm. I didn't quite understand that.\nPress A to play, or B to
            quit.")
77         user_begin_prompt()
78
79- def execute():
80     user_begin_prompt()
81
82- if __name__ == '__main__':
83     execute()
84
```

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