PROJECT -1

Build a simple quiz game that asks users a series of questions.

Implement a scoring system to evaluate the user's performance.

Enhance user interaction by allowing them to input their answers.

PROGRAM:

class Quiz:

def \_\_init\_\_(self, questions):

self.questions = questions

self.score = 0

def ask\_question(self, question, correct\_answer):

print(question)

user\_answer = input("Your answer: ").strip().lower()

if user\_answer == correct\_answer:

print("Correct!")

self.score += 1

else:

print("Incorrect. The correct answer is:", correct\_answer)

self.give\_feedback(correct\_answer)

def give\_feedback(self, correct\_answer):

feedback\_dict = {

"paris": "Paris is the capital of France.",

"shakespeare": "William Shakespeare wrote 'Romeo and Juliet'.",

"h2o": "H2O is the chemical symbol for water.",

"blue whale": "The blue whale is the largest mammal.",

"seven": "There are seven continents on Earth."

}

feedback = feedback\_dict.get(correct\_answer.lower(), "No feedback available.")

user\_feedback = input("Please provide your feedback for this question: ")

print("Feedback:", user\_feedback)

def run\_quiz(self):

print("Welcome to the Quiz Game!\n")

for question, answer in self.questions.items():

self.ask\_question(question, answer)

print("\nQuiz complete!")

print("Your final score is:", self.score, "out of", len(self.questions))

def main():

# Define your questions and answers here

questions = {

"What is the capital of France?": "paris",

"Who wrote 'Romeo and Juliet'?": "shakespeare",

"What is the chemical symbol for water?": "h2o",

"What is the largest mammal?": "blue whale",

"How many continents are there?": "seven"

}

quiz = Quiz(questions)

# Run the quiz

quiz.run\_quiz()

if \_\_name\_\_ == "\_\_main\_\_":

main()

OUTPUT:

Welcome to the Quiz Game!

What is the capital of France?

Your answer: PARIS

Correct!

Please provide your feedback for this question: GOOD

Feedback: GOOD

Who wrote 'Romeo and Juliet'?

Your answer: WILLIAM SHAKESPEARE

Incorrect. The correct answer is: shakespeare

Please provide your feedback for this question: NICE

Feedback: NICE

What is the chemical symbol for water?

Your answer: H20

Incorrect. The correct answer is: h2o

Please provide your feedback for this question: INTERESTING

Feedback: INTERESTING

What is the largest mammal?

Your answer: BLUE WHALE

Correct!

Please provide your feedback for this question: WOW

Feedback: WOW

How many continents are there?

Your answer: SEVEN

Correct!

Please provide your feedback for this question: GREAT

Feedback: GREAT

Quiz complete!

Your final score is: 5 out of 5

=== Code Execution Successful ===