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"'AIM: WAP TO CREATE KBC QUIZ
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def load_questions(filename): # Takes the file path (filename) as input
  questions = [] # Initialize an empty list to store questions
  with open(filename, 'r') as file: # Open the text file for reading
     lines = file.readlines() # Read all lines from the file
     i = 0
     while i < len(lines):
       question = lines[i].strip() # The question text
       options = {
          'A': lines[i+1].strip().split('. ')[1], # Option A
          'B': lines[i+2].strip().split('. ')[1], # Option B
          'C': lines[i+3].strip().split('. ')[1], # Option C
          'D': lines[i+4].strip().split('. ')[1] # Option D
       }
       correct_answer = lines[i+5].strip().split(': ')[1] # Correct answer
       # Add the question data (question, options, correct answer) to the list
       questions.append({
          'question': question,
          'options': options,
          'correct answer': correct answer
       })
       # Move to the next question block (next set of 6 lines)
       i += 6
  return questions
def play game(questions):
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score = 0
  for q in questions:
     print(f"{q['question']}")
     for option, answer in q['options'].items():
       print(f"{option}. {answer}")
     player_answer = input("Enter your answer (A/B/C/D): ").upper()
     if player_answer == q['correct_answer']:
       score += 1
       print("Correct!\n")
     else:
       print(f"Incorrect! The correct answer was {q['correct_answer']}.\n")
       break # End the game if the player answers incorrectly
  print(f"Game Over! Your final score is: {score}/{len(questions)}")
def main():
  filename = 'questions.txt' # The file that contains the quiz questions
  questions = load_questions(filename) # Pass the filename here (not 'questions')
  print("Welcome to the KBC Quiz Game!\n")
  play_game(questions)
if __name__ == "__main__":
  main()
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Welcome to the KBC Quiz Game!
What is the capital of France?
A. Berlin
B. Madrid
C. Paris
D. Rome
Enter your answer (A/B/C/D): C
Correct!
What is 5 + 7?
A. 11
B. 12
C. 13
D. 14
Enter your answer (A/B/C/D): B
Correct!
Who wrote "Romeo and Juliet"?
A. Charles Dickens
B. William Shakespeare
C. Jane Austen
D. Mark Twain
Enter your answer (A/B/C/D): A
Incorrect! The correct answer was B.
Game Over! Your final score is: 2/3
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"'AIM: WAP TO CALCULATE TO CALCULATE THE AREA AND PERIMETER OF SQUARE RECTANGLE AND CIRCLE

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import math

def rectangle():

length = float(input("Enter the length of the rectangle: "))

width = float(input("Enter the width of the rectangle: "))

area = length * width
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perimeter = 2 * (length + width)
  print(f"Area of the rectangle: {area}")
  print(f"Perimeter of the rectangle: {perimeter}\n")
def square():
  side = float(input("Enter the side length of the square: "))
  area = side * side
  perimeter = 4 * side
  print(f"Area of the square: {area}")
  print(f"Perimeter of the square: {perimeter}\n")
def circle():
  radius = float(input("Enter the radius of the circle: "))
  area = math.pi * radius ** 2
  circumference = 2 * math.pi * radius
  print(f"Area of the circle: {area}")
  print(f"Circumference of the circle: {circumference}\n")
# Main function to drive the program
def main():
  while True:
     # Asking the user to choose a shape
     print("Choose a shape to calculate:")
     print("1. Rectangle")
     print("2. Square")
     print("3. Circle")
     print("4. Exit")
     choice = input("Enter your choice (1/2/3/4): ")
     # Perform the appropriate calculation based on user's choice
     if choice == '1':
       rectangle()
     elif choice == '2':
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square()
    elif choice == '3':
       circle()
    elif choice == '4':
       print("Exiting the program. Goodbye!")
       break
    else:
       print("Invalid choice, please try again.\n")
# Running the main function
if __name__ == "__main__":
  main()
1. Rectangle
2. Square
 3. Circle
 Enter your choice (1/2/3/4): 2
 Area of the square: 16.0
 Perimeter of the square: 16.0
  1. Rectangle
  2. Square
  3. Circle
  4. Exit
  Enter your choice (1/2/3/4): 3
  Area of the circle: 153.93804002589985
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Choose a shape to calculate:

1. Rectangle
2. Square
3. Circle
4. Exit
Enter your choice (1/2/3/4): 1
Enter the length of the rectangle: 5
Enter the width of the rectangle: 3
Area of the rectangle: 15.0
Perimeter of the rectangle: 16.0

Choose a shape to calculate:

1. Rectangle
2. Square
3. Circle
4. Exit
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Enter your choice (1/2/3/4): 4