VU21CSEN0600018

Q1.

OUTPUT SCREENSHOT-

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

Welcome to the States and Union Territories Capitals Quiz!
Q1: What is the capital of Madhya Pradesh?
Your answer: kanchi
Wrong! The correct answer is Bhopal

Q2: What is the capital of Arunachal Pradesh?
Your answer: Itanagar
Correct!

Q3: What is the capital of Chhattisgarh?
Your answer: Raipur
Correct!

Q4: What is the capital of Chandigarh (Union Territory)?
Your answer: fsef
Wrong! The correct answer is Chandigarh

Q5: What is the capital of Bihar?
Your answer: Patne
Wrong! The correct answer is Patna

Quiz completed! Your final score is 2/5
Better luck next time!
user@Users-MacBook-Pro bin hack %
```

CODE-

```python
import random

class Quiz:
    def __init__(self):
        self.questions = [
            {"question": "What is the capital of Andhra Pradesh?",
"answer": "Amaravati"},
            {"question": "What is the capital of Arunachal Pradesh?",
"answer": "Itanagar"},
            {"question": "What is the capital of Assam?", "answer":
"Dispur"},
            {"question": "What is the capital of Bihar?", "answer":
"Patna"},
            {"question": "What is the capital of Chhattisgarh?",
"answer": "Raipur"},
            {"question": "What is the capital of Goa?", "answer":
"Panaji"},
```

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Q1.

```
            {"question": "What is the capital of Gujarat?", "answer":
"Gandhinagar"},
            {"question": "What is the capital of Haryana?", "answer":
"Chandigarh"},
            {"question": "What is the capital of Himachal Pradesh?",
"answer": "Shimla"},
            {"question": "What is the capital of Jharkhand?", "answer":
"Ranchi"},
            {"question": "What is the capital of Karnataka?", "answer":
"Bengaluru"},
            {"question": "What is the capital of Kerala?", "answer":
"Thiruvananthapuram"},
            {"question": "What is the capital of Madhya Pradesh?",
"answer": "Bhopal"},
            {"question": "What is the capital of Maharashtra?",
"answer": "Mumbai"},
            {"question": "What is the capital of Manipur?", "answer":
"Imphal"},
            {"question": "What is the capital of Meghalaya?", "answer":
"Shillong"},
            {"question": "What is the capital of Mizoram?", "answer":
"Aizawl"},
            {"question": "What is the capital of Nagaland?", "answer":
"Kohima"},
            {"question": "What is the capital of Odisha?", "answer":
"Bhubaneswar"},
            {"question": "What is the capital of Punjab?", "answer":
"Chandigarh"},
            {"question": "What is the capital of Rajasthan?", "answer":
"Jaipur"},
            {"question": "What is the capital of Sikkim?", "answer":
"Gangtok"},
            {"question": "What is the capital of Tamil Nadu?",
"answer": "Chennai"},
            {"question": "What is the capital of Telangana?", "answer":
"Hyderabad"},
            {"question": "What is the capital of Tripura?", "answer":
"Agartala"},
            {"question": "What is the capital of Uttar Pradesh?",
"answer": "Lucknow"},
```

Q1.

```python
        {"question": "What is the capital of Uttarakhand?",
"answer": "Dehradun"},
        {"question": "What is the capital of West Bengal?",
"answer": "Kolkata"},
        {"question": "What is the capital of Andaman and Nicobar
Islands?", "answer": "Port Blair"},
        {"question": "What is the capital of Chandigarh (Union
Territory)?", "answer": "Chandigarh"},
        {"question": "What is the capital of Dadra and Nagar Haveli
and Daman and Diu?", "answer": "Daman"},
        {"question": "What is the capital of Lakshadweep?",
"answer": "Kavaratti"},
        {"question": "What is the capital of Delhi?", "answer":
"New Delhi"},
        {"question": "What is the capital of Puducherry?",
"answer": "Puducherry"},
        {"question": "What is the capital of Jammu and Kashmir?",
"answer": "Srinagar (Summer), Jammu (Winter)"},
        {"question": "What is the capital of Ladakh?", "answer":
"Leh"}
        ]
        self.score = 0

    def start_quiz(self):
        print("Welcome to the States and Union Territories Capitals
Quiz!")

        # Randomly select 5 questions
        selected_questions = random.sample(self.questions, 5)

        for i, q in enumerate(selected_questions):
            print(f"Q{i+1}: {q['question']}")
            user_answer = input("Your answer: ").strip()
            if user_answer.lower() == q["answer"].lower():
                print("Correct!\n")
                self.score += 1
            else:
                print(f"Wrong! The correct answer is {q['answer']}\n")

        self.show_result()
```

Q1.

```python
    def show_result(self):
        print(f"Quiz completed! Your final score is {self.score}/5")
        if self.score == 5:
            print("Excellent! You got all the answers correct.")
        elif self.score >= 3:
            print("Good job! You passed the quiz.")
        else:
            print("Better luck next time!")


if __name__ == "__main__":
    quiz = Quiz()
    quiz.start_quiz()
```