**Question 1: Purpose of Comments**

**Why are comments used in programming?**

Hint: Reflect on the non-executable nature of comments and their role in code clarity and maintenance.

**Question 2: Single-line Comments**

**How do you write a single-line comment in Python?**

Hint: Identify the character used to indicate that a line should be interpreted as a comment by the Python interpreter.

**Question 3: Multi-line Comments**

**What is the conventional way to write multi-line comments in Python, given that Python does not have a specific multi-line comment syntax like some other languages?**

Hint: Discuss the use of triple quotes for multi-line comments and the difference between actual comments and string literals.

**Question 4: Commenting Out Code**

**Why might a developer choose to comment out a piece of code instead of deleting it? Provide scenarios where this is useful.**

Hint: Consider situations involving testing, debugging, or preserving code snippets for future reference.

**Question 5: Commenting Best Practices**

**What are some best practices for writing effective comments in Python?**

Hint: Think about the clarity, necessity, and maintenance implications of comments.

**Question 6: Automated Documentation**

**How do comments play a role in automated documentation tools in Python?**

Hint: Explore how certain commenting styles or formats can be recognized by documentation generators like Sphinx.

**Question 7: Inline vs. Block Comments**

**Differentiate between inline comments and block comments. When should each type be used?**

Hint: Consider the placement of inline comments versus block comments in relation to the code being described.

**Question 8: Commenting and Version Control**

**How should comments interact with version control systems like Git?**

Hint: Discuss the consideration of comments in the context of code changes and version history.

**Question 9: Updating Comments**

**What is the importance of keeping comments updated, and what challenges might arise from outdated comments?**

Hint: Reflect on the potential discrepancies between comments and code evolution over time.

**Question 10: Code Readability vs. Comments**

**Is it possible to overuse comments? How can comments impact code readability negatively?**

Hint: Address the balance between self-explanatory code and the need for comments, including scenarios where excessive commenting might clutter code or obscure logic.