

Python comments, identifiers, variables, and keywords:

Comments:

1. What are comments in Python? Why are they used?
2. Explain the different types of comments supported in Python.
3. How do you write multi-line comments in Python?
4. How do you write single-line comments in Python?
5. What is the purpose of comments in code? Can you give some examples?

Identifiers:

1. What is identifier in Python? What is purpose of identifier?
2. What are identifiers in Python?
3. What are the rules for naming identifiers in Python?
4. Can identifiers start with a digit in Python?
5. Can identifiers start with a letter in Python?
6. Can identifiers start with an underscore symbol in Python?
7. Give examples of valid and invalid identifiers in Python.
8. Are identifiers case-sensitive in Python?

Variables:

1. What is variable in Python?
2. What is the purpose of variable?
3. What are variables in Python?
4. How are variables declared and assigned values in Python?
5. Explain the concept of variable scope in Python.
6. What is variable naming convention in Python?
7. What are the possible ways to assign values to variables?
8. Can you change the data type of a variable after it has been declared in Python?

Keywords:

1. What are keywords in Python?
2. What is purpose of the keyword in python?
3. How many keywords are there in Python? Can you name a few?
4. Why can't we use keywords as identifiers in Python?
5. How do you check if a given word is a keyword in Python?
6. Explain the significance of the `global` and `nonlocal` keywords in Python.