Python

1. How do you declare a variable in Python? (1)

2. What is the difference between "==" and "is" in Python? (1)

3. Explain the difference between a list and a tuple in Python.(1)

4. What is the purpose of the "try" and "except" blocks in Python? (2)

5. Explain the role of the "for" loop in Python. Provide an example. (2)

6. What is the purpose of the "if" statement in Python? Provide an example. (5)

7. Explain the concept of a function in Python. (5)

8. How do you open and read a file in Python? (3)

9. You are tasked with creating a BankAccount class that represents a simple bank account. The class should include attributes for the account holder's name, account number, and current balance. To ensure data integrity and security, you want to encapsulate the account number and provide a mechanism to deposit and withdraw funds while validating the transactions. Implement the BankAccount class with proper encapsulation and transaction validation (5)