```
class BankAccount:
    def init(self, account number, account holder name, initial balance=0.0):
        self.__account_number = account_number
        self.__account_holder_name = account_holder name
        self.__account_balance = initial_balance
def deposit(self, amount):
        if amount > 0:
            self. account balance += amount
            print(f"Deposited ${amount}. New balance: ${self.__account_balance}")
        else:
            print("Invalid deposit amount. Please deposit a positive amount.")
ef withdraw(self, amount):
        if 0 < amount <= self.__account_balance:</pre>
            self. account balance -= amount
            print(f"Withdrew ${amount}. New balance: ${self.__account_balance}")
        else:
            print("Invalid withdrawal amount or insufficient balance.")
 def display_balance(self):
        print(f"Account Balance for {self. account holder name} (Account
#{self.account_number}): ${self._account_balance}")
# Create an instance of the BankAccount class
account1 = BankAccount("123456", "John Doe", 1000.0)
# Test deposit and withdrawal functionality
account1.display_balance()
account1.deposit(500.0)
account1.withdraw(200.0)
account1.withdraw(1500.0) # Should display an error message
account1.display balance()
```