```
class BankAccount:
    def _init_(self, account_number, account_holder_name, initial_balance=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
            return True
        else:
            return False

    def withdraw(self, amount):
        if amount > 0 and amount <= self.__account_balance:
            self.__account_balance -= amount
            return True
        else:
            return False

    def display_balance(self):
        return f"Account Balance for {self.__account_holder_name} ({self.__account_number}): 
${self.__account_balance:.2f}"

# Create an instance of the BankAccount class
account = BankAccount("1234567890", "John Doe", 1000.00)

# Test deposit and withdrawal functionality
print(account.display_balance())  # Should display the initial balance of $1000.00

if account.deposit(500.50):
```

```
    print("Deposit successful.")
else:
    print("Invalid deposit amount.")

if account.withdraw(300.25):
    print("Withdrawal successful.")
else:
    print("Insufficient funds or invalid withdrawal amount.")

print(account.display_balance())  # Should display the updated balance after deposit and withdrawal
```