

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 f"Deposited ${amount}. New balance is ${self.__account_balance}"
```

```
    Else:
```

```
        Return "Invalid deposit amount."
```

```
Def withdraw(self, amount):
```

```
    If 0 < amount <= self.__account_balance:
```

```
        Self.__account_balance -= amount
```

```
        Return f"Withdrew ${amount}. New balance is ${self.__account_balance}"
```

```
    Else:
```

```
        Return "Invalid withdrawal amount or insufficient balance."
```

```
Def display_balance(self):
```

```
    Return f"Account Balance for {self.__account_holder_name}: ${self.__account_balance}"
```

```
# Testing the BankAccount class
```

```
If __name__ == "__main__":
```

```
    Account = BankAccount("123456789", "John Doe", 1000)
```

```
    Print(account.display_balance()) # Display initial balance
```

```
    Print(account.deposit(500))      # Deposit $500
```

```
Print(account.withdraw(200))    # Withdraw $200
```

```
Print(account.display_balance()) # Display updated balance
```