

```
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:.2f} into account {self.__account_number}")
```

```
        else:
```

```
            print("Invalid deposit amount. Please deposit a positive amount.")
```

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

```
        if amount > 0:
```

```
            if self.__account_balance >= amount:
```

```
self.__account_balance -= amount
```

```
print(f"Withdrew ${amount:.2f} from account {self.__account_number}")
```

```
else:
```

```
print("Insufficient balance. Cannot withdraw.")
```

```
else:
```

```
print("Invalid withdrawal amount. Please withdraw a positive amount.")
```

```
def display_balance(self):
```

```
print(f"Account {self.__account_number} balance: ${self.__account_balance:.2f}")
```

```
# Testing the BankAccount class
```

```
if __name__ == "__main__":
```

```
# Create a BankAccount instance
```

```
account1 = BankAccount("123456", "John Doe", 1000.0)
```

Deposit money

account1.deposit(500.0)

Withdraw money

account1.withdraw(200.0)

Display balance

account1.display_balance()