challange2. 1

```
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)
```

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# Display balance
account1.display_balance()
```