



```

1 class BankAccount:
2     def __init__(self,
3         account_number,
4         account_holder_name,
5         initial_balance=0.0):
6
7         self.__account_number =
8         account_number
9         self.__account_holder_name =
10        account_holder_name
11        self.__account_balance =
12        initial_balance
13
14    def deposit(self, amount):
15        if amount > 0:
16            self.__account_balance
17            += amount
18            return f"Deposited
19            ${amount}. New balance:
20            ${self.__account_balance}"
21        else:
22            return "Invalid
23            deposit amount "
```





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11     else:
12         return "Invalid
deposit amount."
13
14     def withdraw(self, amount):
15         if 0 < amount <=
self.__account_balance:
16             self.__account_balance
-= amount
17             return f"Withdrew
${amount}. New balance:
${self.__account_balance}"
18         else:
19             return "Insufficient
funds or invalid withdrawal
amount."
20
21     def display_balance(self):
22         return f"Account balance
for {self.__account_holder_name}:
${self.__account_balance}"
23
```





```

21 ▾     def display_balance(self):
22         return f"Account balance
for {self.__account_holder_name}:
${self.__account_balance}"
23
24 # Test the BankAccount class
25 ▾ if __name__ == "__main__":
26     # Create an instance of
BankAccount
27     my_account =
BankAccount("123456789", "John
Doe", 1000.0)
28
29     # Test deposit functionality
30     print(my_account.deposit(500))
    # Deposited $500. New balance:
$1500.0
31
32     # Test withdrawal functionality
33
print(my_account.withdraw(200)) #
Withdrew $200. New balance: $1300.0

```



Deposited \$500. New balance: \$1500.0

Withdrew \$200. New balance: \$1300.0

Account balance for John Doe: \$1300.0

