

Object Oriented Programming Challenge - Solution

For this challenge, create a bank account class that has two attributes:

- owner
- balance

and two methods:

- deposit
- withdraw

As an added requirement, withdrawals may not exceed the available balance.

Instantiate your class, make several deposits and withdrawals, and test to make sure the account can't be overdrawn.

```
In [1]: class Account:
        def __init__(self,owner,balance=0):
            self.owner = owner
            self.balance = balance

        def __str__(self):
            return f'Account owner: {self.owner}\nAccount balance: ${self.balance}'

        def deposit(self,dep_amt):
            self.balance += dep_amt
            print('Deposit Accepted')

        def withdraw(self,wd_amt):
            if self.balance >= wd_amt:
                self.balance -= wd_amt
                print('Withdrawal Accepted')
            else:
                print('Funds Unavailable!')
```

```
In [2]: # 1. Instantiate the class
        acct1 = Account('Jose',100)
```

```
In [3]: # 2. Print the object
        print(acct1)
```

```
Account owner: Jose
Account balance: $100
```

```
In [4]: # 3. Show the account owner attribute
        acct1.owner
```

```
Out[4]: 'Jose'
```

```
In [5]: # 4. Show the account balance attribute  
acct1.balance
```

Out[5]: 100

```
In [6]: # 5. Make a series of deposits and withdrawals  
acct1.deposit(50)
```

Deposit Accepted

```
In [7]: acct1.withdraw(75)
```

Withdrawal Accepted

```
In [8]: # 6. Make a withdrawal that exceeds the available balance  
acct1.withdraw(500)
```

Funds Unavailable!

Good job!