

### Test Hints:

- watch OO with CJ in iLecture for what to put where
- OO in Lecture 6
- Exception Handling in lecture 7 page 36 (and see below)

```
# inside the BankAccount withdraw method in accounts.py
    if <check if they dont have enough money>:
        raise InsufficientFundsError('Exception: Withdrawal exceeds
balance')
    else:
        <take their money>

# when you call withdraw in testAccounts.py
try:
    <thing you want to happen>
except InsufficientFundsError as e:
    print(" **** Exception: ", e)    #error message
```

Updated format for balances (not required, but nicer. Removed space after Name: )

Could also do f-strings etc... but that's out of scope for this unit

```
def balances(self):
    print('\n<----- Balances of All Accounts ----->\n')
    total = 0
    for i in range(len(self.accounts)):
        print("Name:", self.accounts[i].name, "\tNumber: ",
self.accounts[i].num, \
            "\tBalance: ", self.accounts[i].bal)
        total = total + self.accounts[i].bal
    print("\t\t\t\t\tTotal: ", total)
    print('<----->\n')
    print()
```

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### Expected output after all changes

```
#### Bank Accounts Portfolio ####
```

```
<----- Balances of All Accounts ----->
Name: Castle      Number:  999999-1      Balance:  1000
Name: Shrubbery   Number:  999999-2      Balance:   100
Name: Grail       Number:  999999-3      Balance:   100
                                           Total:    1200
```

```
<----->
--> Depositing $100 into account Castle
      Complete
--> Withdrawing $10 from account Shrubbery
      Complete
--> Withdrawing $1000 from account Shrubbery
      **** Exception: Withdrawal exceeds balance
```

```
<----- Balances of All Accounts ----->
Name: Castle      Number:  999999-1      Balance:  1100
Name: Shrubbery   Number:  999999-2      Balance:   90
Name: Grail       Number:  999999-3      Balance:   100
                                           Total:    1290
```

```
<----->
--> Depositing $100 into account Grail
      Complete
```

```
Number of Accounts:  3
```

```
Total Balance of Accounts:  1390
```

```
--> Withdrawing $1000 from account Grail
      **** Exception: Withdrawal exceeds balance
```

```
<----- Balances of All Accounts ----->
Name: Castle      Number:  999999-1      Balance:  1200
Name: Shrubbery   Number:  999999-2      Balance:   90
Name: Grail       Number:  999999-3      Balance:   100
                                           Total:    1390
```

```
<----->
```