OBJECT ORIENTED PROGRAMMING PROBLEMS

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PROBLEM 1:

Fill in the Line class method to accept coordinates as a pair of tuples and return the slope and distance of the line.

```
class Line:

    def __init__(self,coor1,coor2):
        pass

    def distance(self):
        pass

    def slope(self):
        pass
```

PROBLEM 2:

Fill in the cylinder class

```
class Cylinder:

    def __init__(self,height=1,radius=1):
        pass

    def volume(self):
        pass

    def surface_area(self):
        pass
```

CHALLENGE PROBLEM:

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.