

Problem 1.

For this program, you are tasked to define the following:

Class - Money:

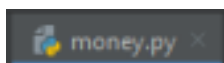
- Public Properties:
 - `amount` (type: int): Represents the monetary amount.
 - `denomination` (type: str): Specifies the denomination or currency type.
- Constructor:
 - `__init__(self, amount: int = 0, denomination: str = "Unknown"):`
 - This constructor can be used in three ways:
 - When called with no parameters, it initializes `amount` to 0 and `denomination` to "Unknown". This constructor is used when no specific monetary details are provided, setting default values.
 - When called with only the `amount` as a parameter, it sets the `amount` property accordingly and sets `denomination` to "Unknown". This constructor is useful when only the `amount` is known, but the `denomination` is not specified.
 - When called with both `amount` and `denomination` as parameters, it sets the respective properties to these values. This constructor is used when complete information about the monetary value, including its `denomination`, is available.

Note: Each class should be defined in its own file, with the file name following camelCase conventions (e.g., `bankAccount.py`).

Create a test class on a separate file named `testMoney.py`

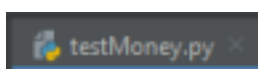
Then try the sample output below:

CODE:



```
4 usages
class Money:
    def __init__(self, amount: int = 0, denomination: str = "Unknown"):
        self.amount = amount
        self.denomination = denomination

    def __str__(self):
        return f"Action: Invoking the Money class constructor using Money({self.amount} {self.denomination})"
```



```

1 usage
def test_money():
    m1 = Money()
    print(f'Action: Invoking the Money class constructor using Money()')
    print("Output:")
    print(f'Amount: {m1.amount}')
    print(f'Denomination: {m1.denomination}')
    m2 = Money(100)
    print(f'Action: Invoking the Money class constructor using Money({m2.amount})')
    print("Output:")
    print(f'Amount: {m2.amount}')
    print(f'Denomination: {m2.denomination}')
    m3 = Money( amount=100, denomination="USD")
    print(f'Action: Invoking the Money class constructor using Money({m1.amount}, {m3.denomination})')
    print("Output:")
    print(f'Amount: {m3.amount}')
    print(f'Denomination: {m3.denomination}')

if __name__ == '__main__':
    test_money()

```

OUTPUT:

```

Run: testMoney
C:\Users\COMLAB\AppData\Local\Programs\Python\Python311\python.exe C:\Users\COMLAB\PycharmProjects\pythonproject\testMoney.py
Action: Invoking the Money class constructor using Money()
Output:
Amount: 0
Denomination: Unknown
Action: Invoking the Money class constructor using Money(100)
Output:
Amount: 100
Denomination: Unknown
Action: Invoking the Money class constructor using Money(0, USD)
Output:
Amount: 100
Denomination: USD

```