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Section: C203

MLT6

Problem 1.

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

    def __str__(self):
        details = f"Amount: {self.amount}\nDenomination: {self.denomination}"
        return details
```

```python
ey.py    testMoney.py
from money import Money


1 usage
def testMoney():
    money1 = Money()
    money2 = Money(100)
    money3 = Money( amount: 100,  denomination: "USD")
    print(money1)
    print(money2)
    print(money3)


testMoney()
```

Output.

Problem 2.

```python
class Student:
    def __init__(self, idNumber: int, name: str, course: str):
        self.idNumber = idNumber
        self.name = name
        self.course = course

    def __str__(self):
        studentDetails = f"{self.idNumber} - {self.name} - {self.course}"
        return studentDetails

    3 usages
    def validateInfo(self):
        containsNumber = False

        for char in self.name:
            if char.isdigit():
                containsNumber = True

        if containsNumber == True or len(str(self.idNumber)) != 9:
            print("Student information is invalid")
        else:
            print("Student information is valid")
```

```python
from student import Student

1 usage
def testStudent():
    student1 = Student( idNumber: 123456789, name: "Toby the Goat", course: "Iyot101")
    student2 = Student( idNumber: 123456789, name: "123456", course: "POOP101")
    student3 = Student( idNumber: 123456, name: "XxdanrothegamerxX", course: "APPLEDEV")
    print(student1)
    print(student2)
    print(student3)
    student1.validateInfo()
    student2.validateInfo()
    student3.validateInfo()


testStudent()
```

Output.

```
123456789 - Toby the Goat - Iyot101
123456789 - 123456 - POOP101
123456 - XxdanrothegamerxX - APPLEDEV
Student information is valid
Student information is invalid
Student information is invalid


Process finished with exit code 0
```