**Task**

You are provided with an interface Bank that contains the following methods:

* void assignLoans(int[] loans);
* void averageLoan();
* void maxLoan();
* void minLoan();

Implement two classes:

1. PersonalLoanDept
2. BusinessLoanDept

Both classes must implement the Bank interface.

**Specifications**

**1. PersonalLoanDept**

* **Attributes**:
  + An integer array loanAmounts initialized to store loan values for personal clients.
* **Constructor**:
  + PersonalLoanDept(int clients):
    - Initializes an empty loanAmounts array of size clients.
* **Methods**:
  + void assignLoans(int[] loans):
    - Assigns loan values from the loans array to loanAmounts.
    - If the lengths differ, assign as many values as possible.
    - Print: Loans for clients processed.
  + void averageLoan():
    - Calculates and prints the average loan amount for clients.
    - Print: Average loan amount for clients is {averageLoan} (rounded to 2 decimal places).
  + void maxLoan():
    - Finds and prints the maximum loan amount among clients.
    - Print: Maximum loan amount amongst clients is {maximumLoan}.
  + void minLoan():
    - Finds and prints the minimum loan amount among clients.
    - Print: Minimum loan amount amongst clients is {minimumLoan}.

**2. BusinessLoanDept**

* **Attributes**:
  + An integer array loanAmounts initialized to store loan values for business clients.
* **Constructor**:
  + BusinessLoanDept(int businesses):
    - Initializes an empty loanAmounts array of size businesses.
* **Methods**:
  + void assignLoans(int[] loans):
    - Assigns loan values from the loans array to loanAmounts.
    - If the lengths differ, assign as many values as possible.
    - Print: Loans for businesses processed.
  + void averageLoan():
    - Calculates and prints the average loan amount for businesses.
    - Print: Average loan amount for businesses is {averageLoan} (rounded to 2 decimal places).
  + void maxLoan():
    - Finds and prints the maximum loan amount among businesses.
    - Print: Maximum loan amount amongst businesses is {maximumLoan}.
  + void minLoan():
    - Finds and prints the minimum loan amount among businesses.
    - Print: Minimum loan amount amongst businesses is {minimumLoan}.

**Notes**

* Ensure proper encapsulation and inheritance to avoid redundant code.
* Use the provided Bank interface to define the structure of your solution.

**Input Format**

1. Two integers, n and m, representing the number of personal and business loan clients.
2. An array of n integers, representing loan values for personal clients.
3. An array of m integers, representing loan values for business clients.

**Sample Input and Output**

**Input:**

4 4

2348 929 1284 5543

3117 5196 3352 7068

**Output:**

Loans for clients processed

Loans for businesses processed

Average loan amount for clients is 2526.00

Maximum loan amount amongst clients is 5543

Minimum loan amount amongst clients is 929

Average loan amount for businesses is 4683.25

Maximum loan amount amongst businesses is 7068

Minimum loan amount amongst businesses is 3117

**Input:**

5 3

1500 3000 4500 0 0

1000 2000 0

**Output:**

Loans for clients processed

Loans for businesses processed

Average loan amount for clients is 1800.00

Maximum loan amount amongst clients is 4500

Minimum loan amount amongst clients is 0

Average loan amount for businesses is 1000.00

Maximum loan amount amongst businesses is 2000

Minimum loan amount amongst businesses is 0