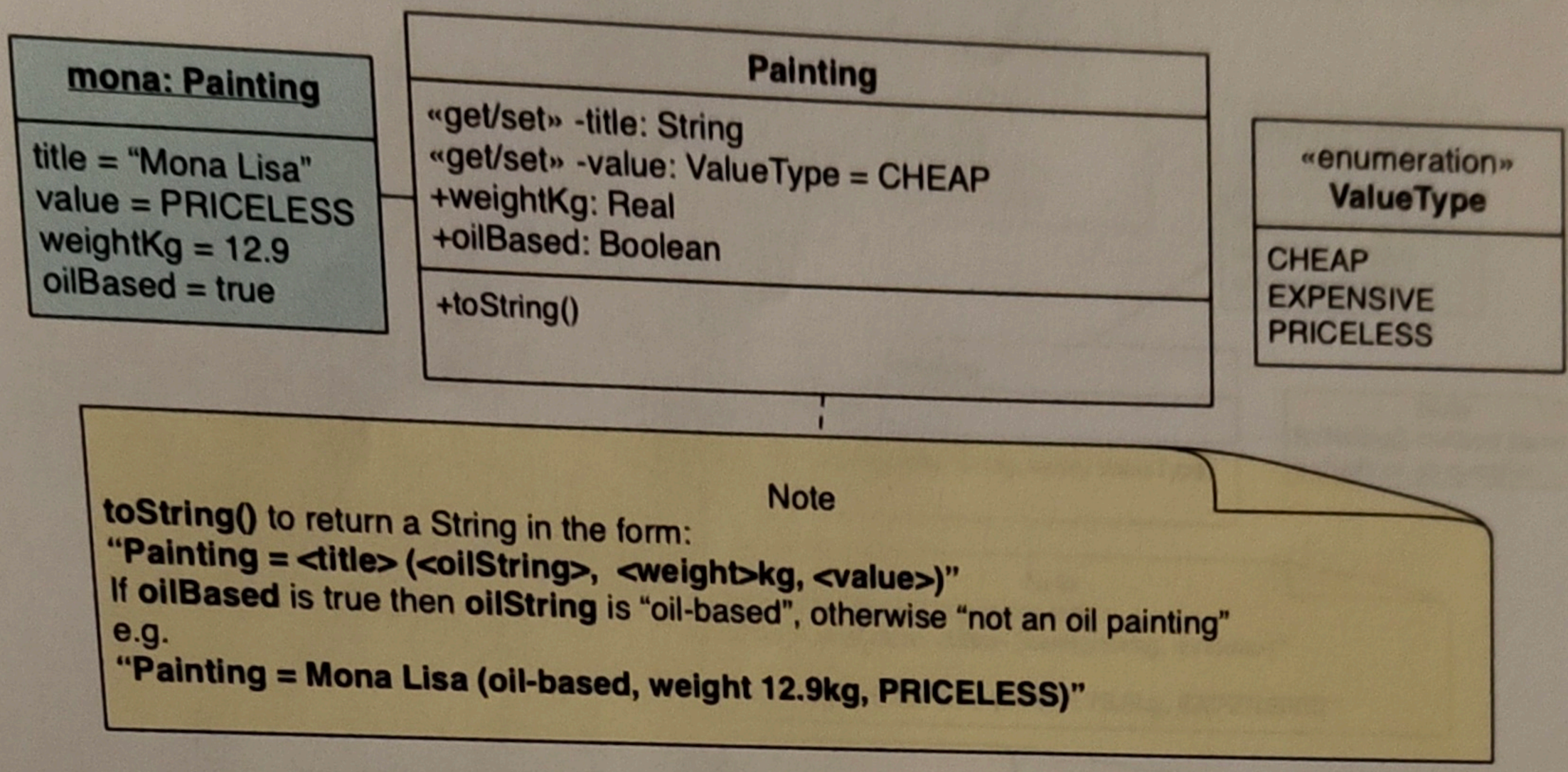
Question 1: Objects, enumeration & objects

Submit your answers to this question in folder: **question1/**

Total: 30 marks



1a. Write Java files to implement the classes in the diagram above.

1b. Write a **main(...)** method in class **Main** to do the following:

- create and print out the details of the object(s) in the diagram.

Your program output should look as follows:

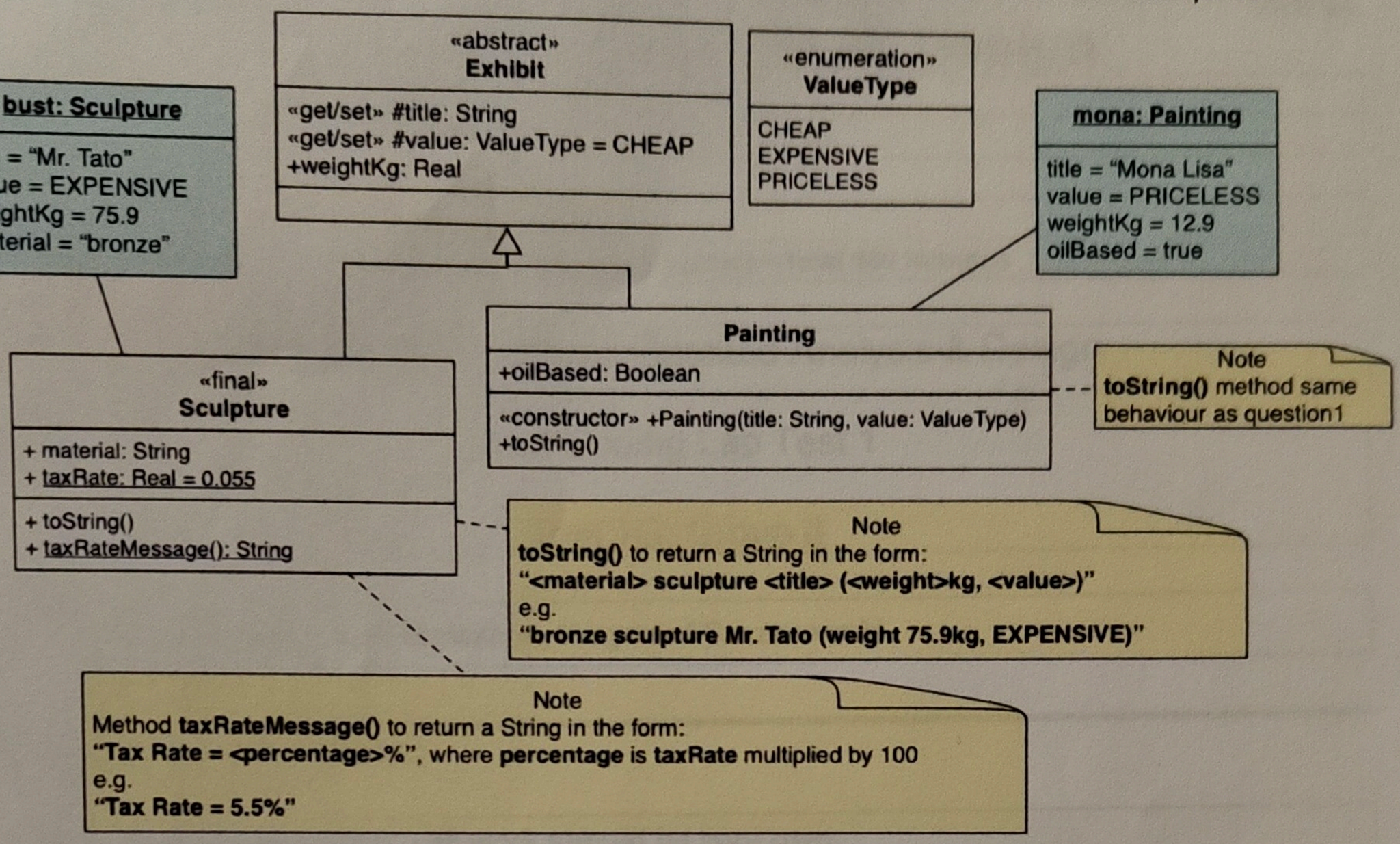
```
$ java Main

Painting = Mona Lisa (oil-based, weight 12.9kg, PRICELESS)
```

Question 2: Inheritance, protected & static

Total: 70 marks

Copy your question 1 folder, naming the copy: **question2/**. Adapt your code to answer this question.



2a. Write Java files to implement the classes in the diagram above.

2b. Write a **main(...)** method in class **Main** to do the following:

- Create the **Painting** object from the diagram, and print out its details
- Create the **Sculpture** object from the diagram, and print out its details
- Print out the value returned from **Sculpture** method **taxRateMessage()**
- Change the value of **taxRate** to **0.1**
- Print out the value returned from **Sculpture** method **taxRateMessage()**

Your program output should look as follows:

```
$ java Main

Painting = Mona Lisa (oil-based, weight 12.9kg, PRICELESS)

bronze sculpture Mr. Tato (weight 75.9kg, EXPENSIVE)

Tax Rate = 5.5%

Tax Rate = 10%
```