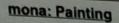
Submit your answers to this question in folder:

question1/



title = "Mona Lisa"
value = PRICELESS
weightKg = 12.9
oilBased = true

Painting

"get/set" -title: String

"get/set" -value: ValueType = CHEAP

+weightKg: Real +oilBased: Boolean

+toString()

«enumeration» ValueType

CHEAP EXPENSIVE PRICELESS

Note

toString() to return a String in the form:

"Painting = <title> (<oilString>, <weight>kg, <value>)"

If oilBased is true then oilString is "oil-based", otherwise "not an oil painting" e.g.

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

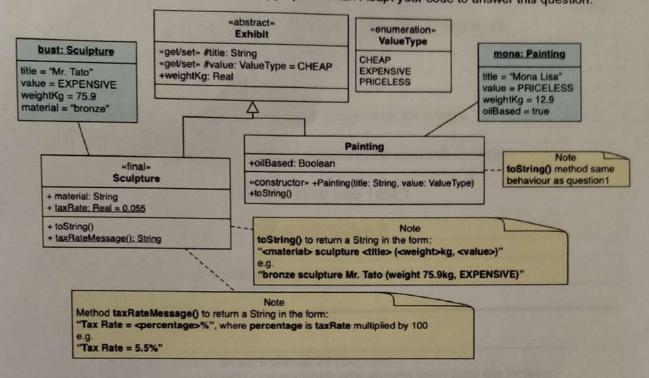
- 1a. Write Java files to implement the classes in the diagram above.
- 1b. Write a main(...) method in class Main to do the following:
 - create and print out the details of the object(s) in the diagram.

Your program output should look as follows:

\$ java Main

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

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%