*Lightweight and Heavyweight extensions: Creating KDM-AO instances*

*Experiment*

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group:\_\_\_\_\_\_\_\_\_ Extension:­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phase: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Activity 1**

-Create three CrosscuttingConcerns, following the source code below.

Time to perform this activity: 6 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Activity 1 – Observations (Only after you have finished this activity):

**Activity 2**

-Create the three Aspects presented below and link them to their respective crosscutting concern created earlier.

Time to perform this activity: 6 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Activity 2 – Observations (Only after you have finished this activity):

**Activity 3**

-Create these PointCuts, following the source code below.

Time to perform this activity: 12 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Activity 3 – Observations (Only after you have finished this activity):

**Activity 4**

-Create two PointCuts, following the source code below.

Time to perform this activity: 25 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Activity 4 – Observations (Only after you have finished this activity):

**Activity 5**

Create three Advices, following the source code below.

Time to perform this activity: 9 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Time to perform this activity: 9 minutes

Activity 5 – Observations (Only after you have finished this activity):

**Activity 6**

Create the following Inter-Type Declarations, following the source code below.

Time to perform this activity: 9 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Activity 6 – Observations (Only after you have finished this activity):

**Activity 7**

Now you have to maintain the source code.

Please, open the java class maintenance\_experiment to perform this activity.

-Add the following properties to Aspect1:

* “isAbstract = false”;
* “PrecededBy = Aspect1”;
* “Precedes = Aspect1”.

Time to perform this activity: 9 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Activity 7 – Observations (Only after you have finished this activity):

**Activity 8**

Continuing in java class maintenance\_experiment, perform perform the following maintenance.

-Transform the following pointcut as follows.

Time to perform this activity: 9 minutes

|  |  |
| --- | --- |
| **Start time**: \_\_\_h\_\_\_\_min  **End time**: \_\_\_h\_\_\_\_min |  |

Activity 8 – Observations (Only after you have finished this activity):