Tasks to complete

During the task, take notes while coding, so you can answer the questionnaire after completing all the tasks.

Warmup task

Add a file with the extension .feature-to-folder to the *graphics* package. * Verify that the feature Playing_Area is defined in the Feature Model via the Feature View tab (bottom left). * Map the feature Playing_Area to the new .feature-to-folder file by writing it into the file.

You have now mapped the feature *Playing_Area* to the *graphics* directory.

Tasks:

Task 1

Implement and annotate a feature (choose a fitting name) that adds a red poison tile that if eaten shrinks the snake by three tiles. If the length of the snake is less than or equal to three, the snake dies. *Hint: The poison would follow similar implementation as the feature Food.*

Reminder: Make sure you annotate the code you write!

Task 2

Add a file with the extension .feature-to-file to the *pojo* package. * Verify that the feature Tile is defined in the Feature Model. * Map the feature Tile to the file Tuple.java.

Task 3

Rename (refactor) the Head feature to the new name Positions, including all references to it.

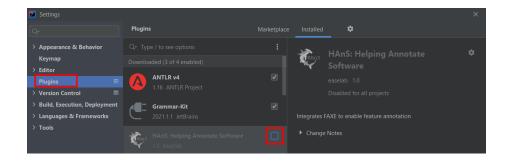
Task 4

After the above tasks are completed, answer the questions here.

Second part:

Task 5

Disable the plugin. 1. Open Plugins in Settings/Preferences. Uncheck the box marked in red in the image below. 2. Click "Apply".



Task 6

Implement and annotate a feature that raises the difficulty of the game by increasing its speed by one every time the snake crosses the borders of the playing area. The feature should be defined as a child feature of GameState in the Feature Model. The current difficulty should be displayed as the title of the window, create methods to enable this. * Hint 1: The speed of the game is inverted. It is implemented as a sleep call, so the shorter the sleep, the faster the game. * Hint 2: The difficulty may never be equal to or exceed the speed variable. * Hint 3: To check if the snake passes the bottom border check if the head is equal to 0.

Reminder: Make sure you annotate the code you write!