

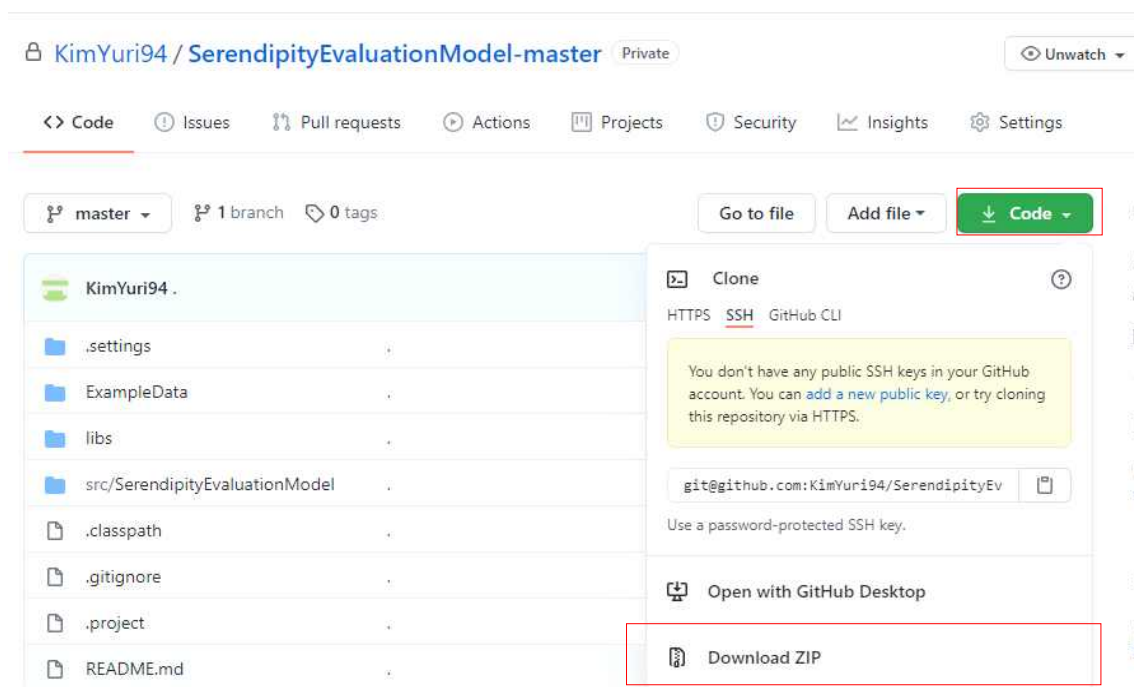
This document is a program manual for Potential serendipity value evaluation program.

1. We used Eclipse IDE with Java 1.8 for the program development. The program is platform independent, we recommend users to use Java 1.8 or higher version.

2. Navigate to

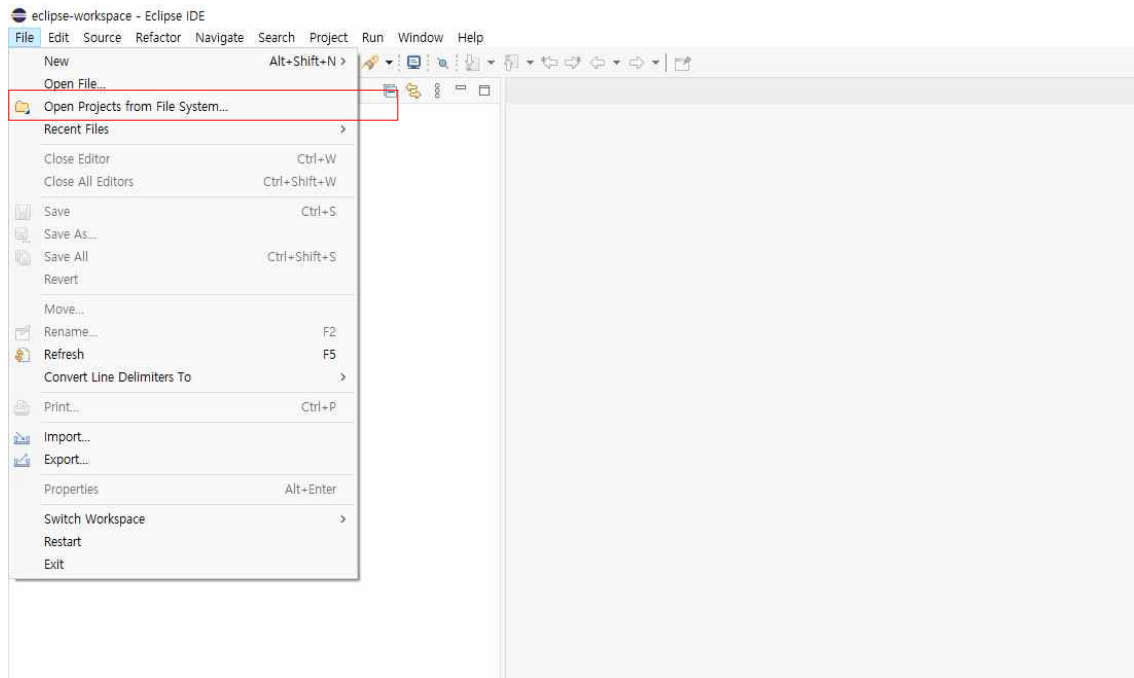
<https://github.com/KimYuri94/SerendipityEvaluationModel/tree/forLargeIS>

Click “Code” -> “Download ZIP”

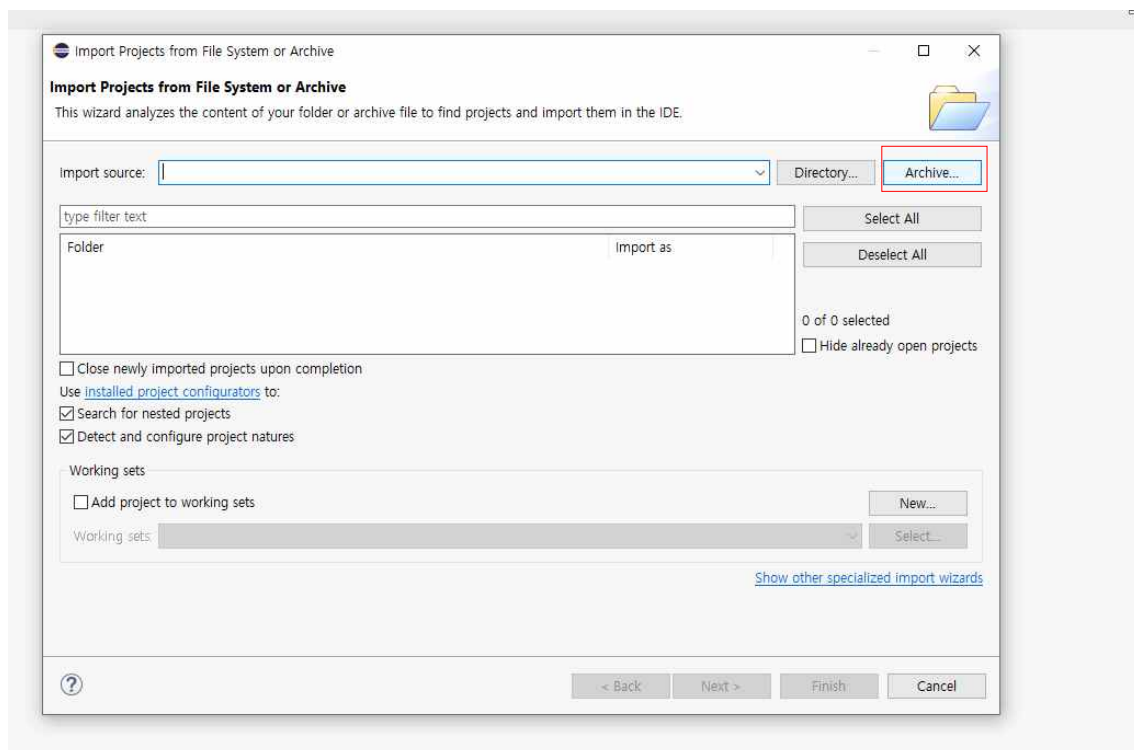


3. Open Java IDE and import the downloaded project files.

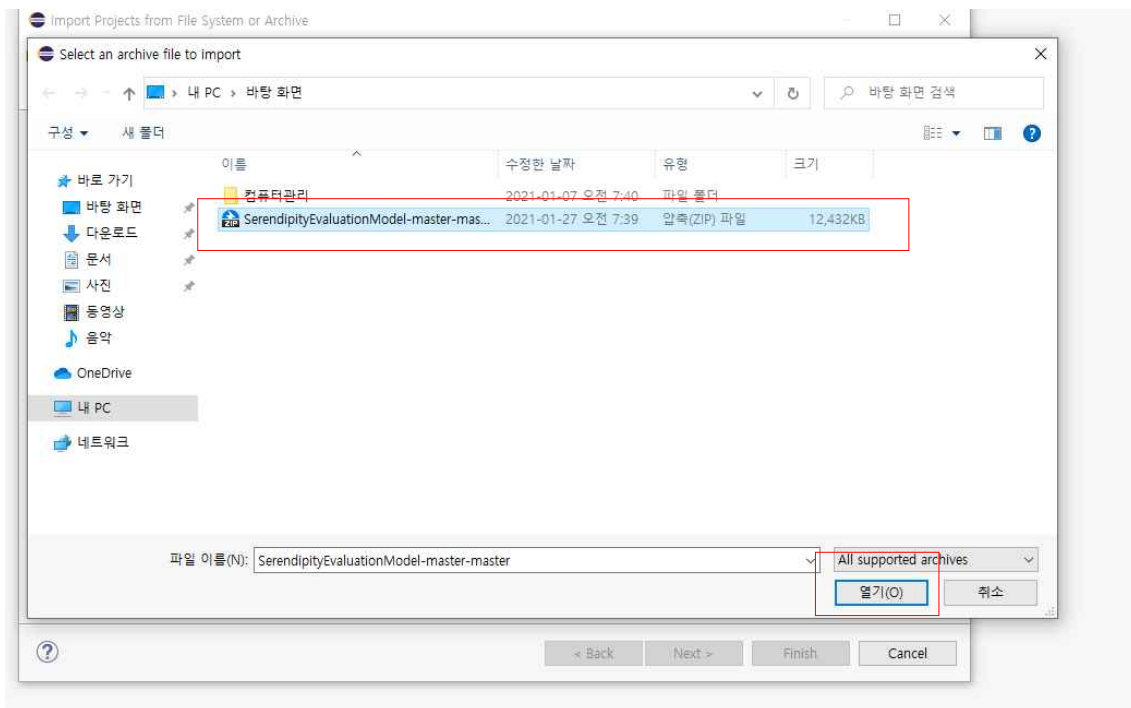
a. From the IDE, click “File” -> “Open Projects from File System...”.



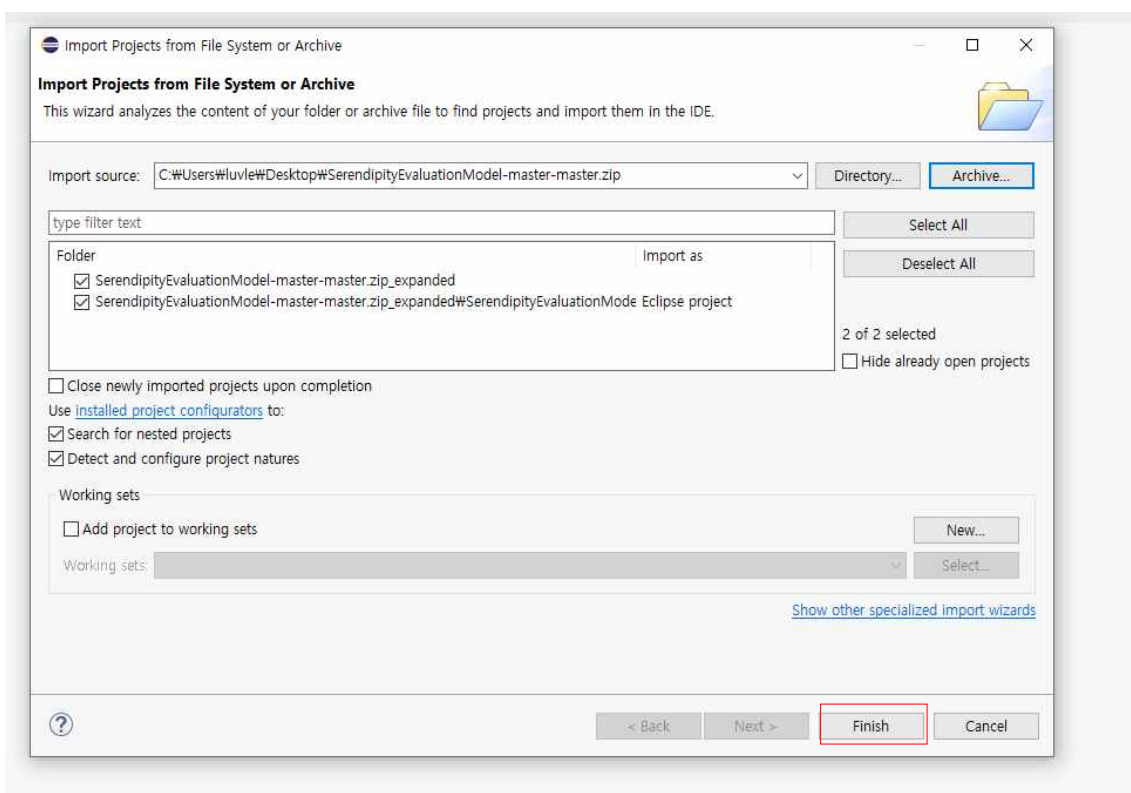
b. Click “Archive”



c. Select the downloaded project zip file, then click “Open (O)”

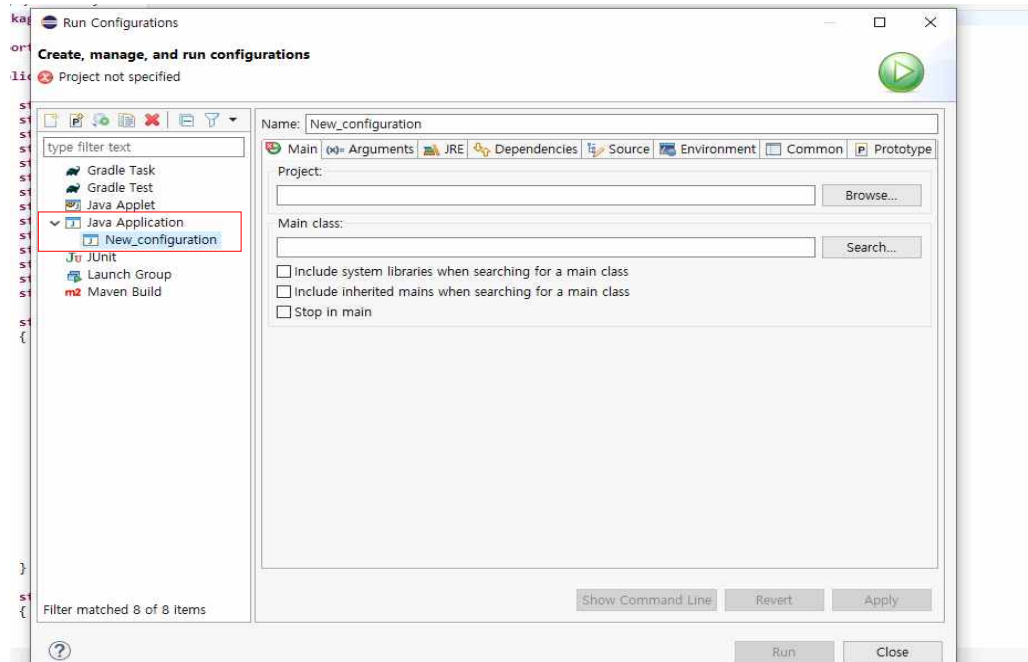


d. Click “Finish”

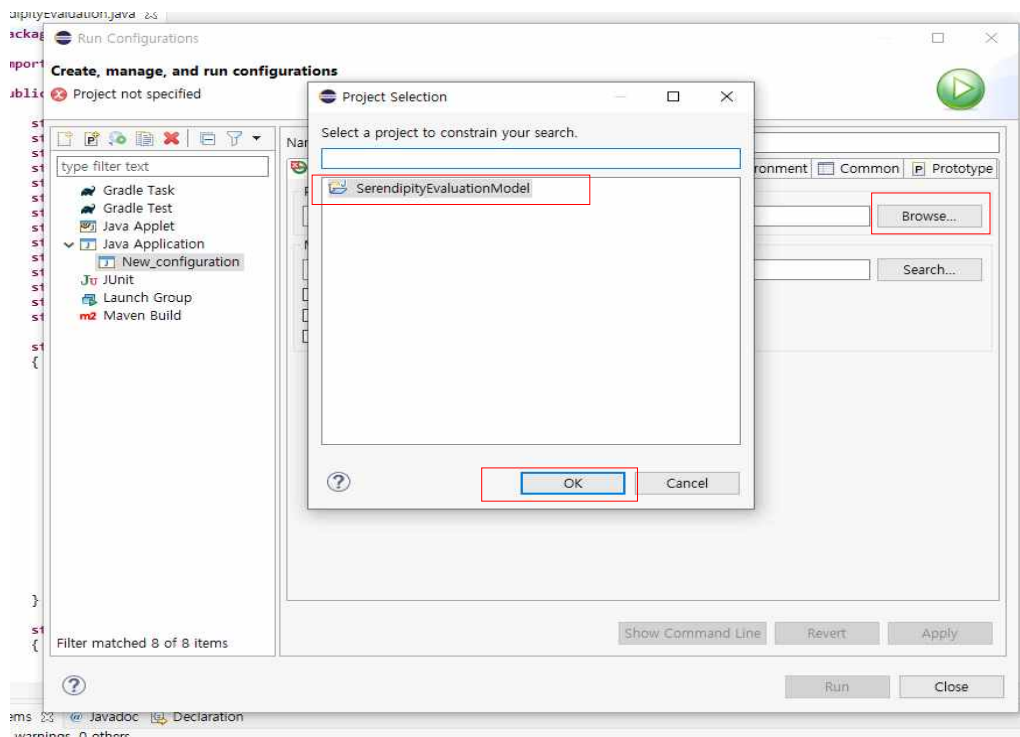


4. Run the program

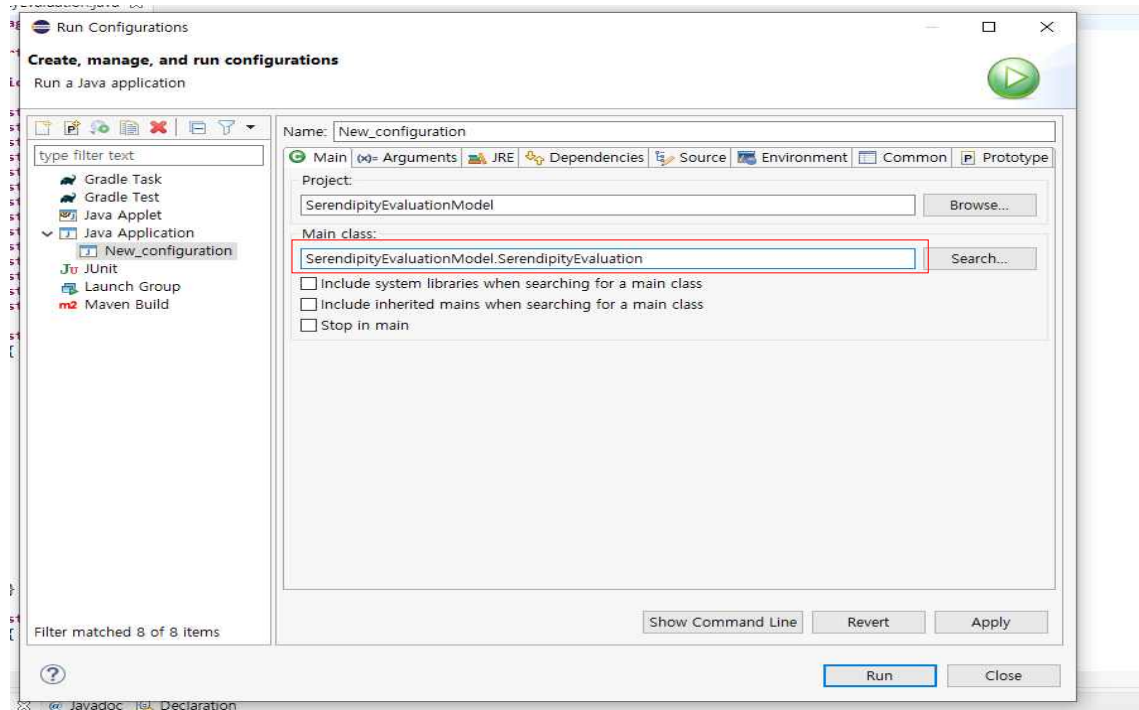
- a. Click “Run -> Run configuration” -> “Java Application”



- b. Click “Browse” -> “SerendipityEvaluationModel” -> ”OK“



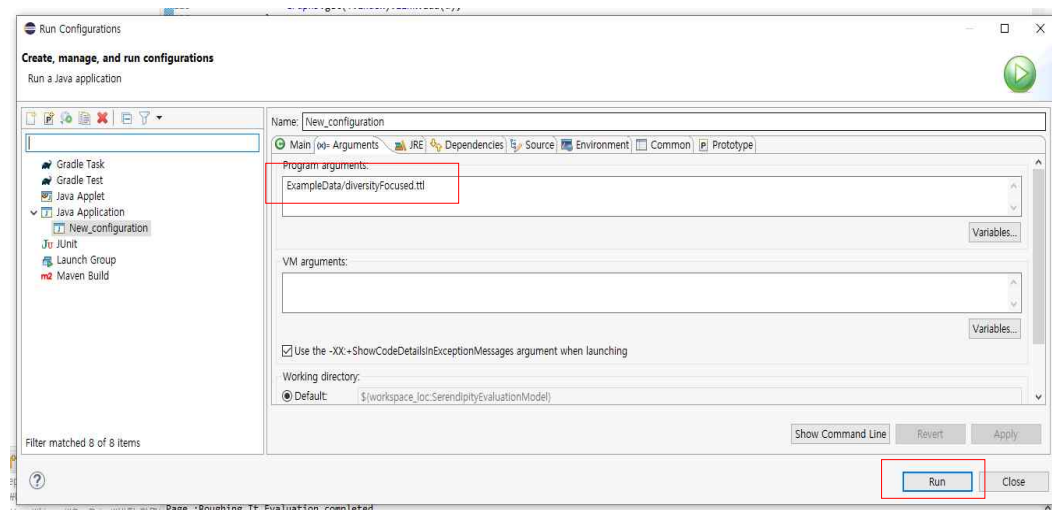
c. Type “SerendipityEvaluationModel.SerendipityEvaluation” into the “Main class:” box



d. Go to “Arguments” tab, then type the name of the Turtle file of the information space as an input. The sample information spaces are placed under “ExampleData” directory.

You can evaluate samples by typing “ExampleData/FileName.ttl”.

If you click “Run”, the program will start potential serendipity value evaluation process for the given input.



e. You can see the potential serendipity value measured for the given information space.

```
Page :Roughing It Evaluation completed
Page :The Voyage of the Beagle Evaluation completed
Page :The Journals of Lewis and Clark Evaluation completed
Page :What I Saw in America Evaluation completed
Page :Journal of Researches into the Natural History and Geology of the Countries Visited During the Voyage Round the World of Evaluation completed
Page :A Journey from Prince of Wales Fort in Hudsons Bay to the Northern Ocean in the Years Evaluation completed
Page :The Story of Magellan and The Discovery of the Philippines Evaluation completed
Page :A Description of the Coasts of East Africa and Malabar in the Beginning of the Sixteenth Century Evaluation completed
Page :Old Trails on the Niagara Frontier Evaluation completed
Page :Voyages of Samuel De Champlain Evaluation completed
Page :Zanzibar Tales Evaluation completed
Page :Observations and Reflections Made in the Course of a Journey through France Italy and Germany Evaluation completed
Page :Narrative of the surveying voyages of His Majestys ships Adventure and Beagle Evaluation completed
Page :Maximilian Prince of Wieds Travels in the Interior of North America Evaluation completed
Page :Wild Adventures round the Pole Evaluation completed

The number of existing search paths for all pairs of pages: 25824
The number of sidetracked paths that can be derived from all the existing search paths: 708833
The potential serendipity value for the given information space is: 295147.87799541024
```