5/24/2023

# Assignment 4

Implement the next release of your term project. You will incorporate *saving and retrieving objects*, *lambdas*, and *streams*. You can substitute the use of JavaFX for one of these three concepts if you wish. Also, substitutions for any of these concepts by another advanced techniques are acceptable if you have already used them: please clear this with your facilitator.

The same instructions as in Assignment 3 apply to this completed Word document regarding the gray text, the 5 page limit, use of AI generation, appendices, JUnit tests, and a ReadMe file.

## 1 SUMMARY DESCRIPTION

One- or two-paragraph overall description of your proposed term project. Color red the parts changed from previous assignments, if any.

Your response replaces this.

## 2 ADDITIONAL REQUIREMENTS (FEATURES) IMPLEMENTED IN THIS RELEASE

Title and one or two sentences per requirement. Don’t repeat requirements implemented for prior assignments unless they are necessary to provide context—in which case, make it clear they are old.

### 2.1 Your title replaces this. (NEW/OLD)

Your response replaces this.

### 2.2 Your title replaces this. (NEW/OLD)

Your response replaces this.

### 2…. more as needed

### >>AI generation OR check: *I did not use AI generation here* \_\_(Collapse section before submitting.)

1. PARAGRAPH DESCRIBING YOUR VALUE ADDED TO THE AI-GENERATED MATERIAL

I improved the intent of the summary with a few edits. chatGPT’s output was too much like a marketing piece.

1. MY PROMPT SEQUENCE (ONLY)

[1]

Improve the following summary: In this strategy game, as Earth's Chief Scientist Alex, employed by the UN, you must save the Earth by managing funds and powers. You interact with governments, and through them, the public and companies, each with their own revenues, abilities to tax or be taxed, and cause or repair environmental damage. Before it is too late, you must halt the degradation of the Earth from CO2 emission and achieve global sustainability.

1. CODE OR TEXT PRODUCED BY THE ABOVE PROMPT SEQUENCE

chatGPT X

Embark on a thrilling strategy game as Alex, Earth's Chief Scientist employed by the United Nations, tasked with saving the planet by adeptly managing resources and influence. Engage with governments, the public, and corporations, each possessing unique revenue streams, taxation capabilities, and potential to either inflict or mitigate environmental damage. Race against time to curb Earth's degradation from CO2 emissions and secure global sustainability before it's too late.

## 3 I/O SUPPORTING THE NEW REQUIREMENTS LISTED ABOVE

Provide examples of input / output generated by your implementation, showing the new features of your application.

### Input 1

Your response replaces this.

### Output for 1

Your response replaces this.

### Input 2

Your response replaces this.

### Output for 2

Your response replaces this.

…

## 4 YOUR DIRECTORY

Show a screenshot of your directory. Include your “.dat” files (where objects are written). This should include JUnit tests—class-by-class, and method-by-method, except for trivial and inappropriate ones.

Your response replaces this.

## 5 DESIGN

Supply a main use case, the class model, and the sequence diagram corresponding to the use case. These should be consistent. Indicate in red your class model where you applied object read, object write, streams and lambdas. Excellent assignments will typically include the use of Java FX (speak to your facilitator first if you wish to use alternative API’s) and event-driven programming.

Your response replaces this.

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## 6 CODE SNIPPETS

### 6.1 Code showing object read and write

Your response replaces this.

### 6.2 Code Showing *stream*() and Lambdas (separate int0 6.3 and 6.4 if you wish)

Your response replaces this.

>>>AI generation OR check: *I did not use AI generation here* \_\_(Collapse section before submitting.)

## 7 YOUR CODE

Unless your facilitator arranges another method, copy your Eclipse project to your file system, zip it, and attach it to your Blackboard response. Please contact your facilitator in advance if you require an exception.

Your response replaces this.

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## 8 Evaluation

