Alexandria University
Faculty of Engineering
Computer and Communication Engineering
Specialized Scientific Programs

CC272
Programming II
Fall 2023 / 2024
Due: Monday 4/12/2023

Lab 8: Chess game

Part 2:
- You are tasked with developing a graphical user interface (GUI) for a chess game, building upon the core functionalities established in the previous lab (Part 1).
- It is essential to maintain a strict separation between Part 1 and the GUI components. This means that the core classes from Part 1 must not incorporate or depend on any classes from the GUI segment. Conversely, the GUI classes are responsible for supplying input to the core segment. This approach differs from the method used in the previous lab, where input was read directly from a file.
- Additionally, any move made within the GUI should be translated into the move format utilized in Part 1, ensuring consistency and integration between the two parts of the project.

GUI requirements:
1. When clicking a piece, you should highlight all the valid moves.
2. When the king is in check, you should highlight the king square.
3. When the player's turn changes, the board should be flipped upside down.

Required:
1. Here is the link for images of pieces to use them:
   https://drive.google.com/file/d/1jkOYl3OqyZPAWJprpM7yLZdNuWojemdy/view?usp=sharing
2. You are required to implement the chess game in a clean object-oriented design and deliver that online through a Google form that will be available for you on Monday 12:00 Am.
3. The due time for the delivery is Monday 10:00 Am.
4. A discussion will be made with you at your lab time next week on what you have delivered.
5. For students who have their lab on Saturday, an online form will be sent to you to schedule an online discussion with your TAs.

Dr. Layla Abou-Hadeed

Eng. Ahmed El-Sayed	Eng. Mazen Sallam
Eng. Tarek Salah	Eng. Mostafa Ibrahim
Eng. Ahmed Ashraf	Eng. Hania Yasser
Eng. Youssef Victor	Eng. Omar Hossam

Alexandria University
Faculty of Engineering
Computer and Communication Engineering
Specialized Scientific Programs

CC272
Programming II
Fall 2023 / 2024
Due: Monday 4/12/2023

What to be delivered:

- On the Google form, you should deliver a zipped file that contains the .java files.
- Your zip file should be named as id_groupNumber. For example, 4678_G2.

Policies:

- You must work in the same group as lab7.
- Your code should be clean, readable, and commented.
- Delivering a copy will be severely penalized for both parties, so delivering nothing is so much better than delivering a copy.
- No late submission is allowed.

Dr. Layla Abou-Hadeed

Eng. Ahmed El-Sayed
Eng. Tarek Salah
Eng. Ahmed Ashraf
Eng. Youssef Victor

Eng. Mazen Sallam
Eng. Mostafa Ibrahim
Eng. Hania Yasser
Eng. Omar Hossam