

Implement an advanced version of the drawing program, meeting the requirements as follows:

- control section, located on the left and split into 2 parts:
 - upper panel - presenting a multi-column list of all elements included in the created drawing;
 - bottom panel - showing modifiable properties of the element currently selected on the top panel;
- the command selection section (realized in two ways: through the menu bar and the bar with a set of buttons) located in the upper part of the application window;
- „drawing” section - the workspace, located in the center of the application window and maintaining the order of added elements as layers, with the top layer covering the layers placed below it.

Make sure that the app includes at least 6 different types of figures, including:

- at least two user-defined figures, e.g. a star with user-defined number of star rays;
- at least two irregular shapes;
- each figure must contain information about the outline and filling colors, its filling status (the figure is filled or empty), position and number of the layer on which it is located
- ensure that each figure can be moved independently of the others

The application should be implemented in JavaFX technology. While creating a program, you should ensure a clear (by class) separation of the logical (data) layer from the visual layer, while maintaining all JavaFX application well development practices. Particular emphasis will be placed on the practical use of "bindings" between the components in the visual (control section) and data layer.

1 Formal requirements

The project should be delivered by 19.VI.2022.

Your work should be delivered by the *Teams* platform in the form of a single, uncompressed and not archived in any way .java file, structured as shown below:

```
1 public
2     class SXXXXXXP04 {
3
4         public static void main(String[] args) {
5             // ... program running ...
6         }
7     }
8
9     class A{
10         // ...
11     }
```

where XXXXXX should be the student number.

The work is considered as delivered after pressing the *TurnIn* or *Oddaj* button (depending on the operational version). A project that has not been properly delivered is not a subject to evaluation.

The project must not be subject to any form of code obfuscation.

Failure to meet **any** of the formal requirements described above, will result in scoring **zero** points.