Sofia University Department of Mathematics and Informatics

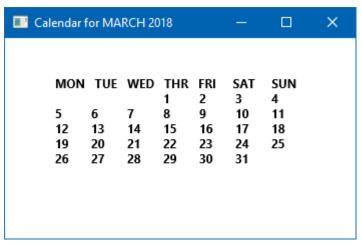
Course : AOOP part 1 Date: March 7, 2022

Student Name:

Homework No. 2

Problem No. 1

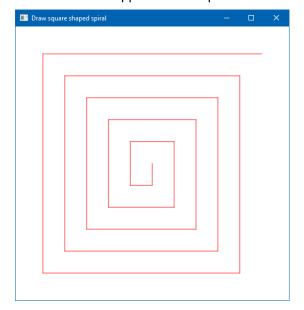
Write a JavaFX program that displays a calendar for a month. The program reads the number of the month and the year using a dialog input textbox in JavaFX. Display in Red color the date number, if it is the current date number at the time of displaying the Calendar.



Submit the solution as a IntelliJ project.

Problem No. 2

Write a JavaFX application to reproduce the following drawing. Submit the solution as an IntelliJ project



Problem No. 3

Write a static method drawRandomNumber() in a class to generate random integers from within [1;3] with the following probabilities:

P(1) = 0.2

P(2) = 0.3

P(3) = 0.5

where P(N) denotes the probability for the number N.

Test the method in the main() method of the class.

Call the method drawRandomNumber() in a loop 10,000 times and display the probability with which the method has returned 1,2 and 3. Display the probabilities as percentages using the methods of class NumberFormat.,

Call the method drawRandomNumber() in a loop 60,000 times and display the probability with which the method has returned 1,2 and 3. Display the probabilities as percentages using the methods of class NumberFormat.,