



CS421 - Computer Modeling and Simulation



Warm-up Assignment 1

Date: 18th February, 2022

Use AnyLogic software to build the following models:

1. Write a model that takes a number from the user through an edit box (only between 1 and 7) and displays the name of the weekday. Use a checkbox to define if the first day of the week is Monday or Sunday. Don't allow the user to write any other number in the edit box.
2. Allow the user to enter a word in an edit box. The user will then add the word to a collection using a button. Find a way using the controls you currently know, to allow the user to add the new word in any position of the collection of his choice.

For instance if the current collection is "hello", "middle", "bye", the user can add a new word anywhere in the collection, before "hello", at the end after "bye" or anywhere in between.

If the user tries to put the word in a position that doesn't exist (for instance in position 6 when the collection has 3 words) then the word will be added at the end of the collection.

Print the collection in the console each time a new word is added.

3. Expand the model of the previous exercise. Now allow the user to get the value of the word in the collection that is in the position of his/her choice. A text will show this word in the format "the chosen word is WORD". If there is no word in that position, the text displayed will be "No word chosen".

Test your model as follows

- a. Add 3 words: "hello" "middle" and "bye"
- b. Display word in position 1... a text will display "the chosen word is middle";
- c. Display word in position 10... a text will display "no word chosen";
- d. Display word in position 2... the text will display "the chosen word is "bye";
- e. Add "word" in position 2, leaving the collection like this: "hello" "middle" "word" "bye". What is the text displaying? It should display "the chosen word is "bye"" because that was the chosen word before (even though the position of the word changed).
- f. Display word in position 2 again... the text will display "the chosen word is "word"

