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Synopsis:

I have chosen the shop window of La Stans, a chocolaterie at Markstraat 5 in Enschede. Elements from the shopwindow that come back in my program are two types of autumn leaves, butterflies, the outside of the shopwindow and pinecones. More detailed pictures are on page two.

Usage and Interactions:

Press 1 - Make squirrels smaller

Press 2 - Make squirrels bigger

Press 3 - Flip squirrels

Press 4 - Change color of squirrels

Press 5 - Colors squirrels to original colors

Press 6 - Change position of pinecones

Press 7 - Make it night

Press 8 - Make it day

Hold 9 - Display a shop window

Press Enter - remove all leaves

You can make the butterflies fly faster when you drag the mouse or replace a squirrel.

You can replace a squirrel by dragging it.

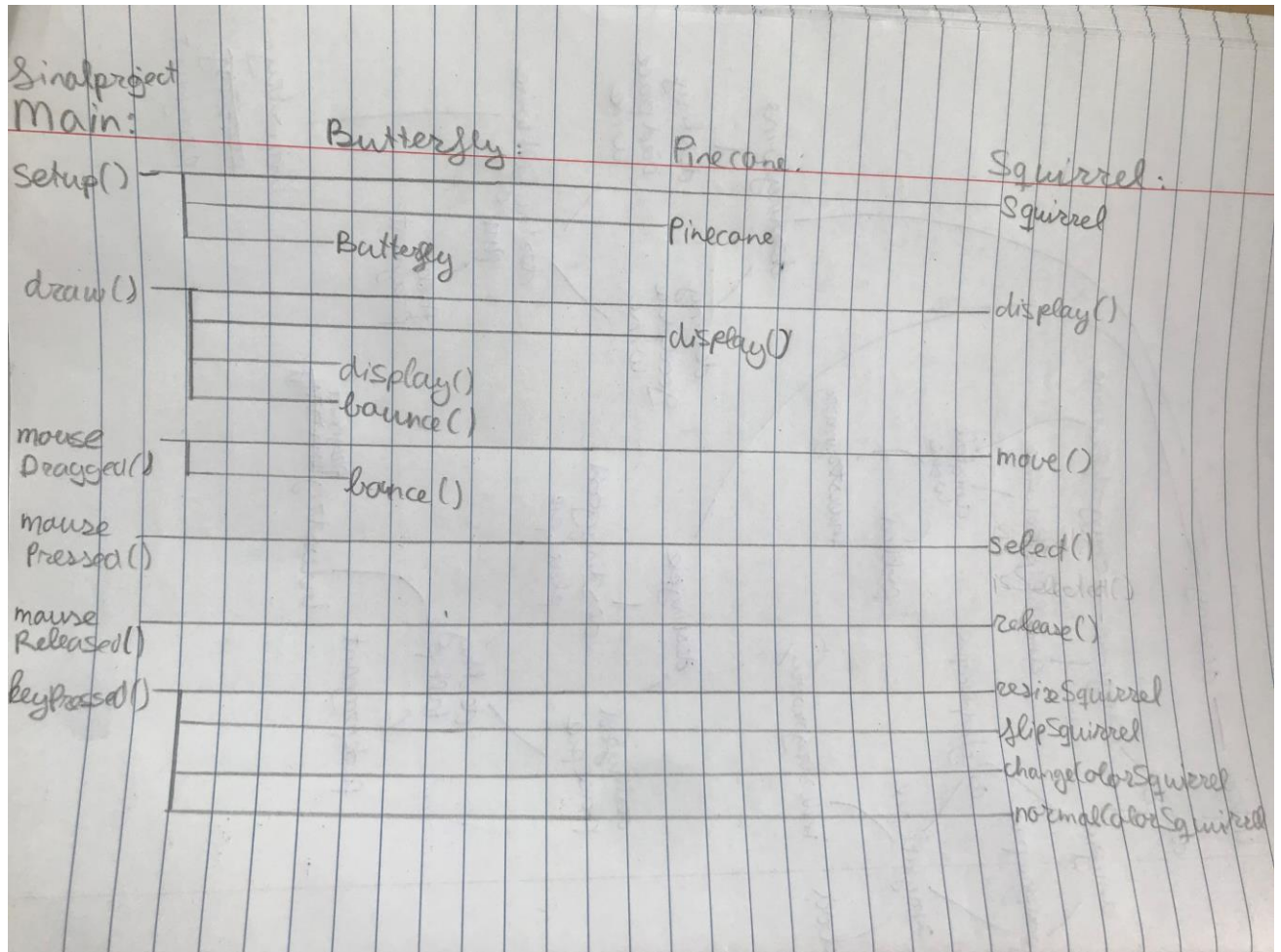
You can click your mouse and then leaves will where you click and a branch with leaves will display at a random place.



Architecture:

1. Finalproject (main)
 - a. Setup()
 - b. Draw() - display background, squirrels, pinecones and butterflies. Access ArrayList
 - c. mouseDragged() - bounce butterflies and move squirrels when selected
 - d. mousePressed() - add data to the ArrayLists and check if squirrel is selected
 - e. mouseReleased() - if squirrel was selected it is no longer selected
 - f. keyPressed() - perform actions with 1 through 9 and Enter
2. Butterfly
 - a. Display() - method for displaying butterflies
 - b. Bounce() - method for changing speed and direction of the butterflies
3. Pinecone
 - a. Display() - method for displaying pinecones
4. Squirrel
 - a. Display() - method for displaying squirrels
 - b. Select() - method to check if squirrel is selected
 - c. Release() - method to check if squirrel is released and change boolean isSelected
 - d. Move() - method for changing position of squirrel
 - e. resizeSquirrel() - method for resizing squirrel using a factor
 - f. flipSquirrel() - method for flipping the squirrel
 - g. changeColorSquirrel() - method for changing the color of the squirrel
 - h. normalColorSquirrel() - method for setting color of the squirrel to default

Structure of program in a diagram:



Close up pictures of specific elements I used from window shop in my program:

