ECE 6310 – Introduction to Computer Vision – LAB 4 REPORT
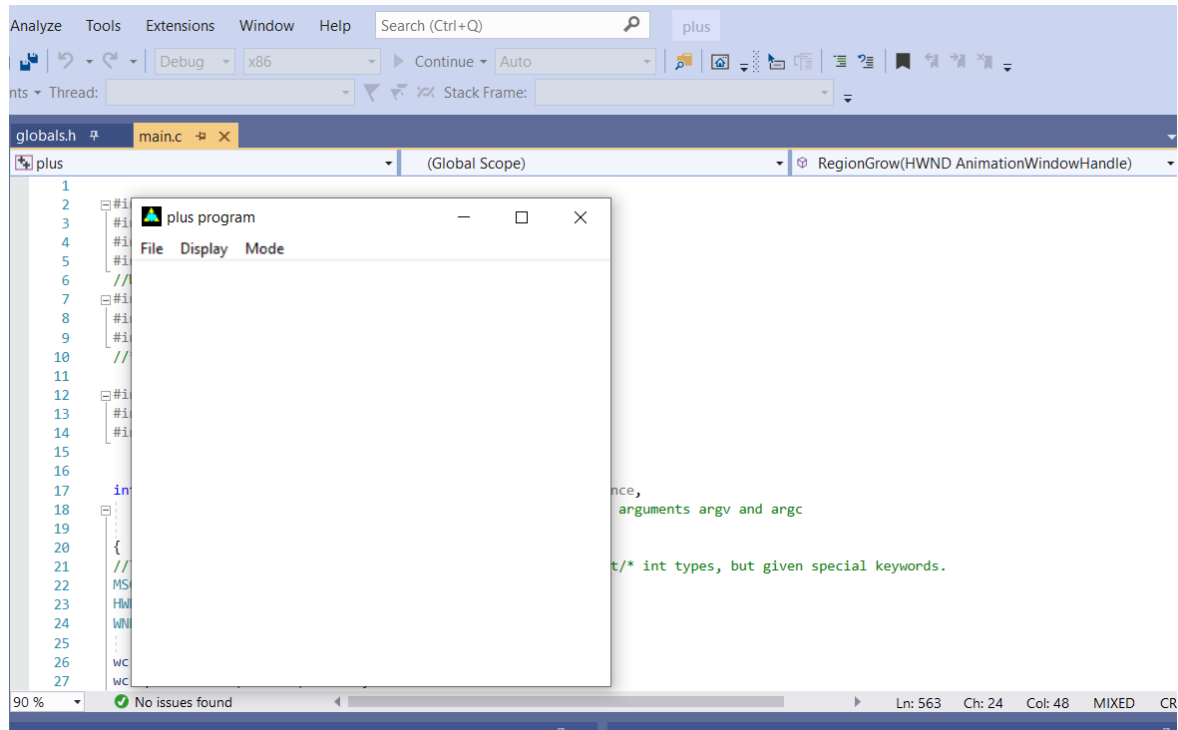
Region Interaction

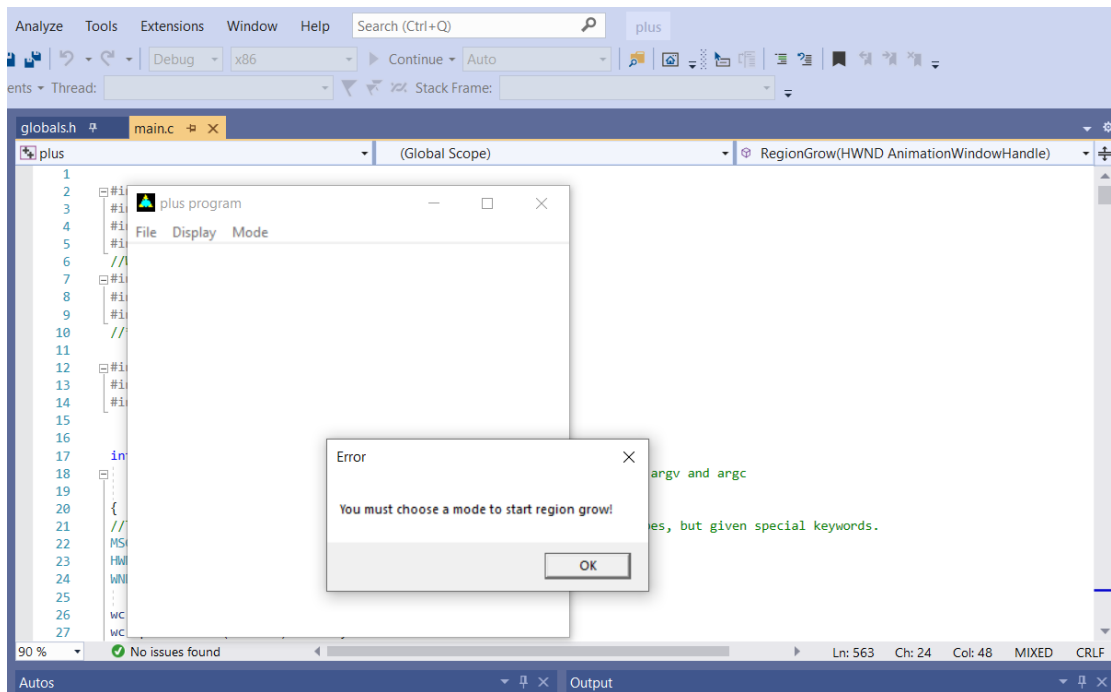**TASKS**

- Make a GUI for interactive region growing
- Predicates:
    - Distance
    - Average Intensity
- Options:
    - Choose Color
    - Clear
    - Enter Inputs
- Modes:
    - Step
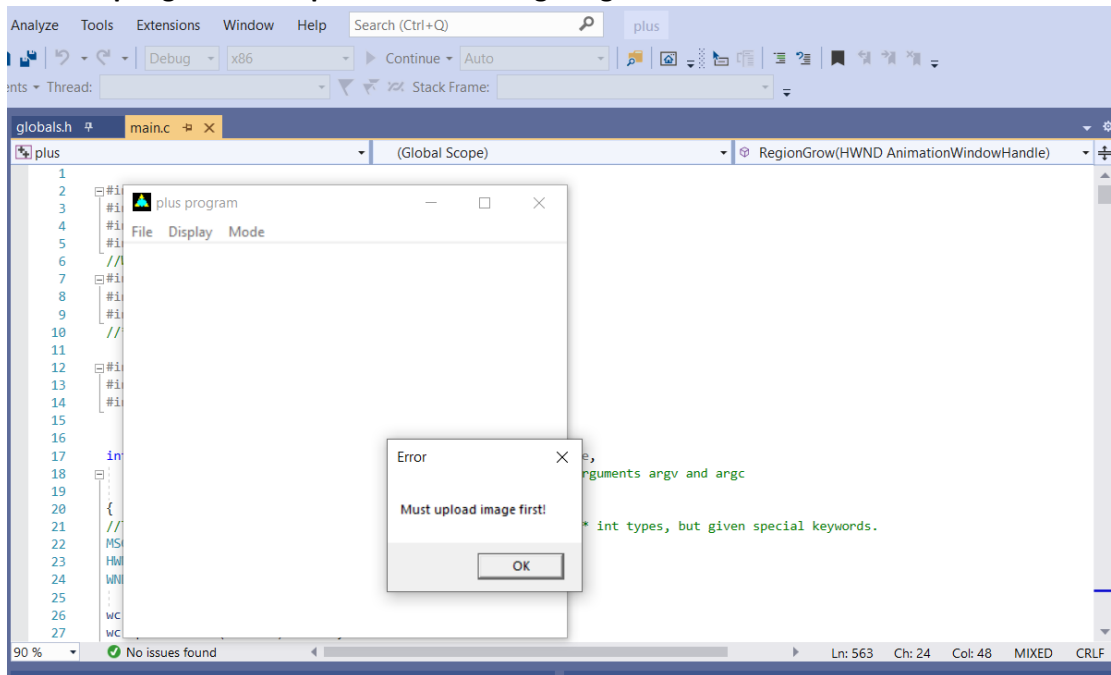   - Play

OUTPUT SCREENSHOTS
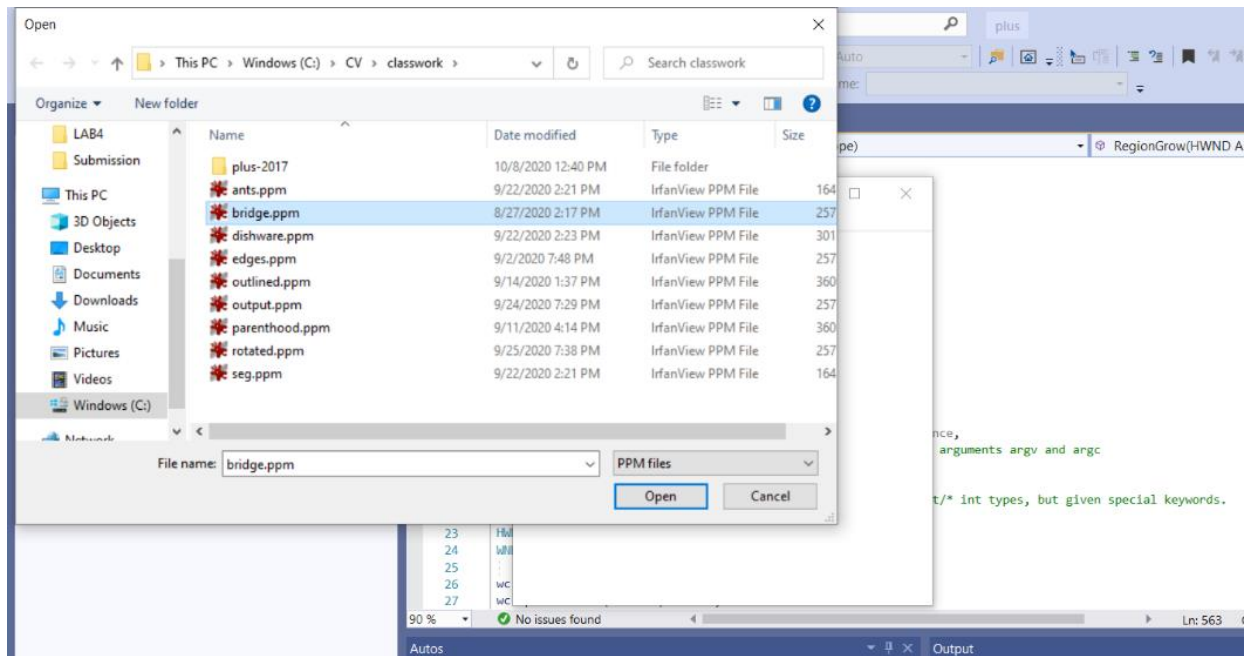
1. Running the program

2. Clicking (attempting region grow) before loading image raises error
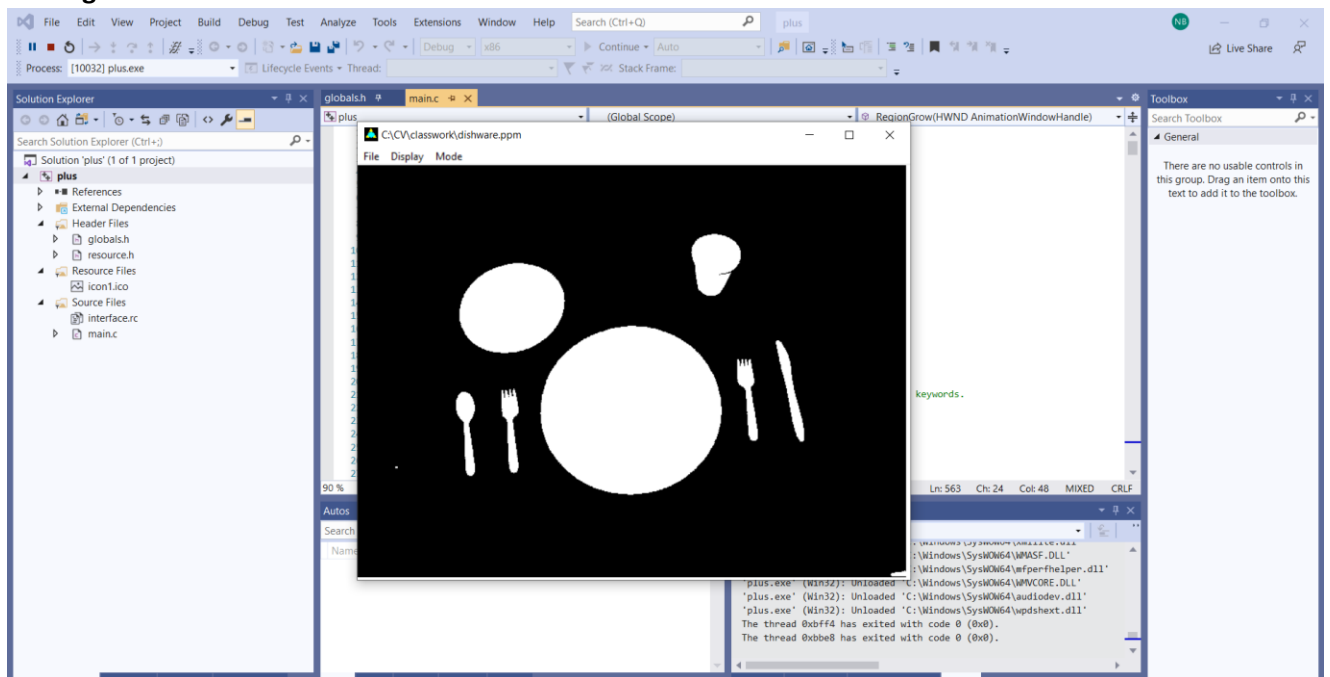

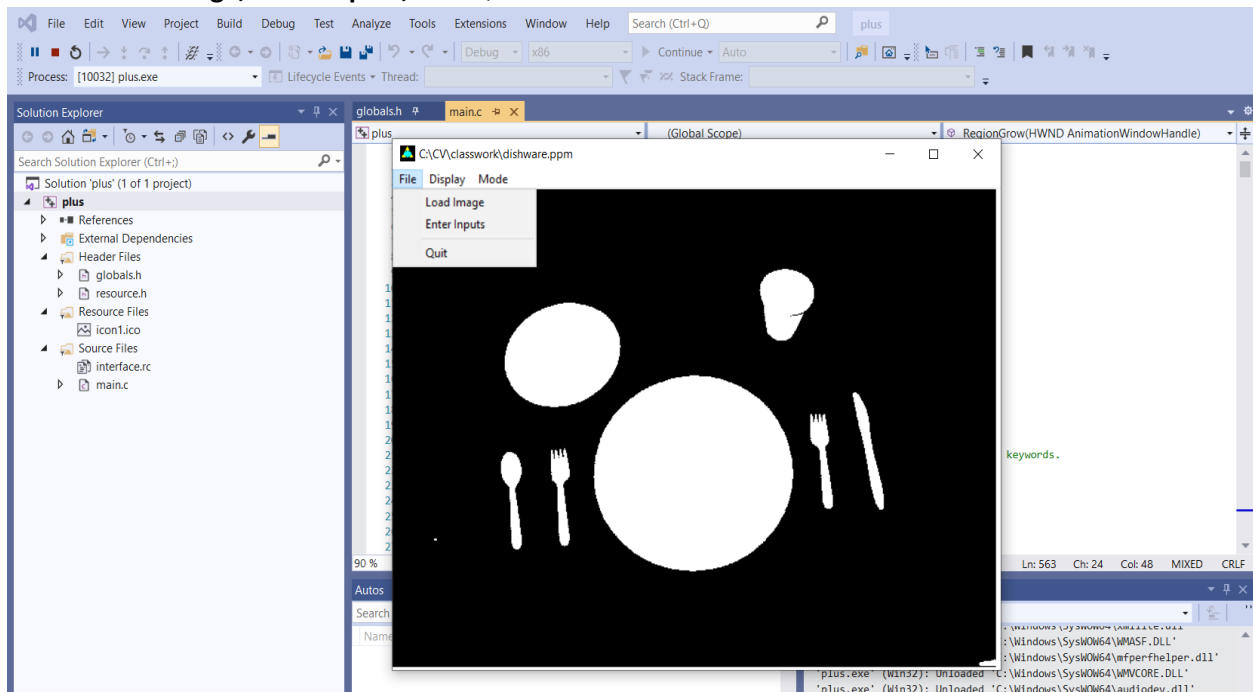## 3. Attempting to enter inputs before loading image raises error
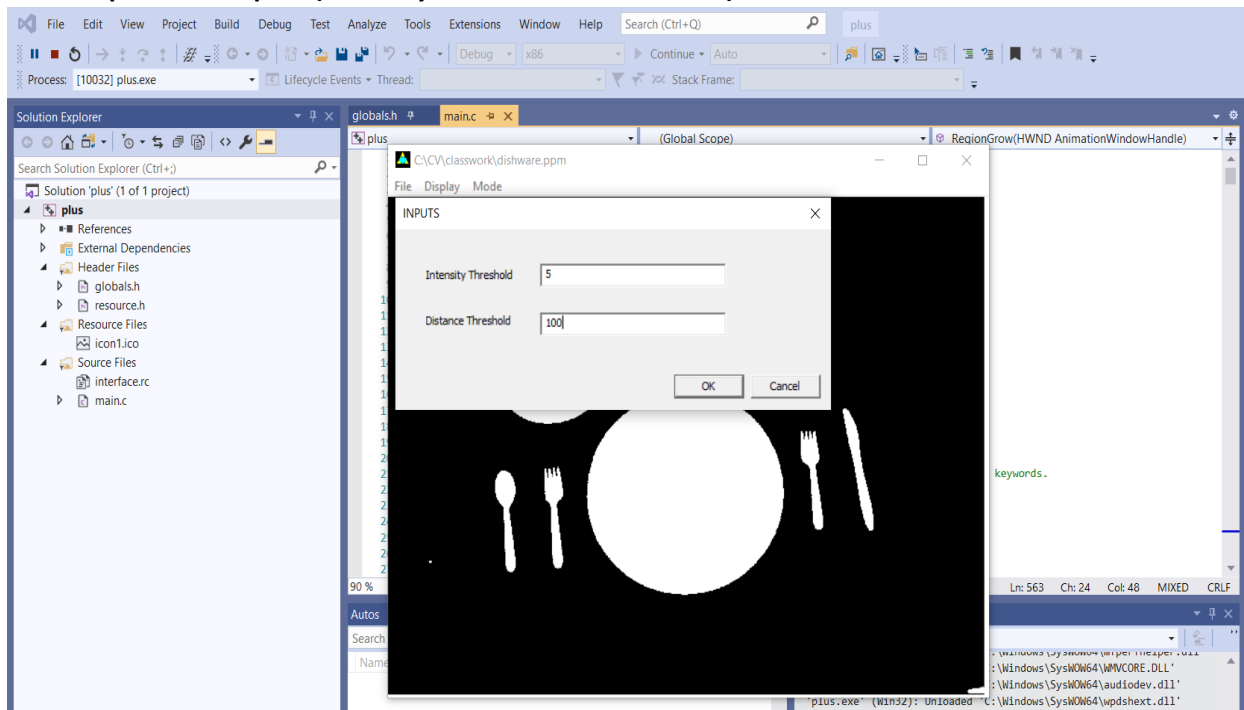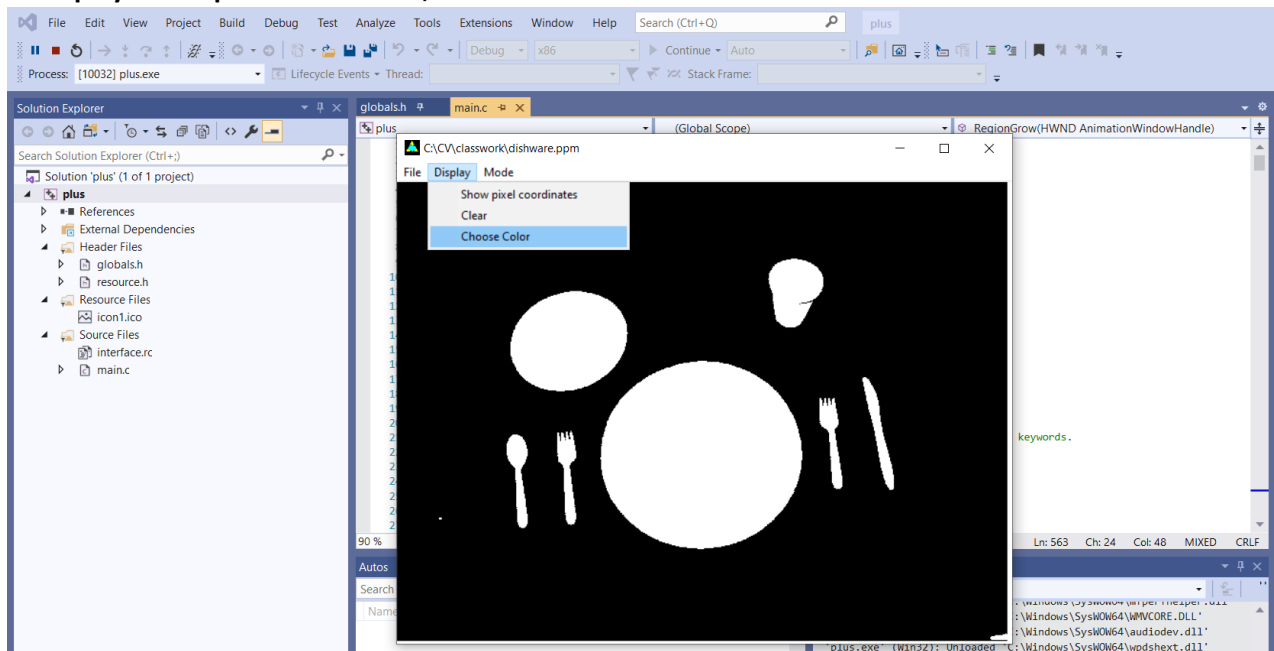
4. Loading image

5. Image loaded

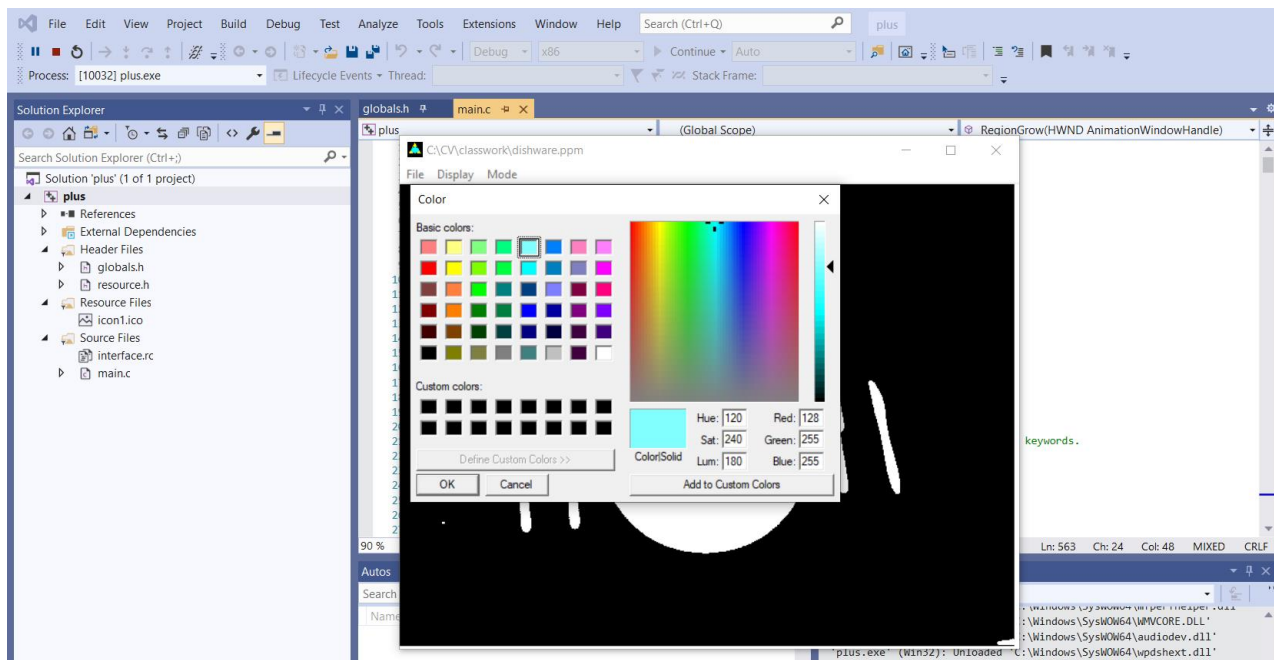## 6. FILE: Load Image, Enter Inputs, and Quit

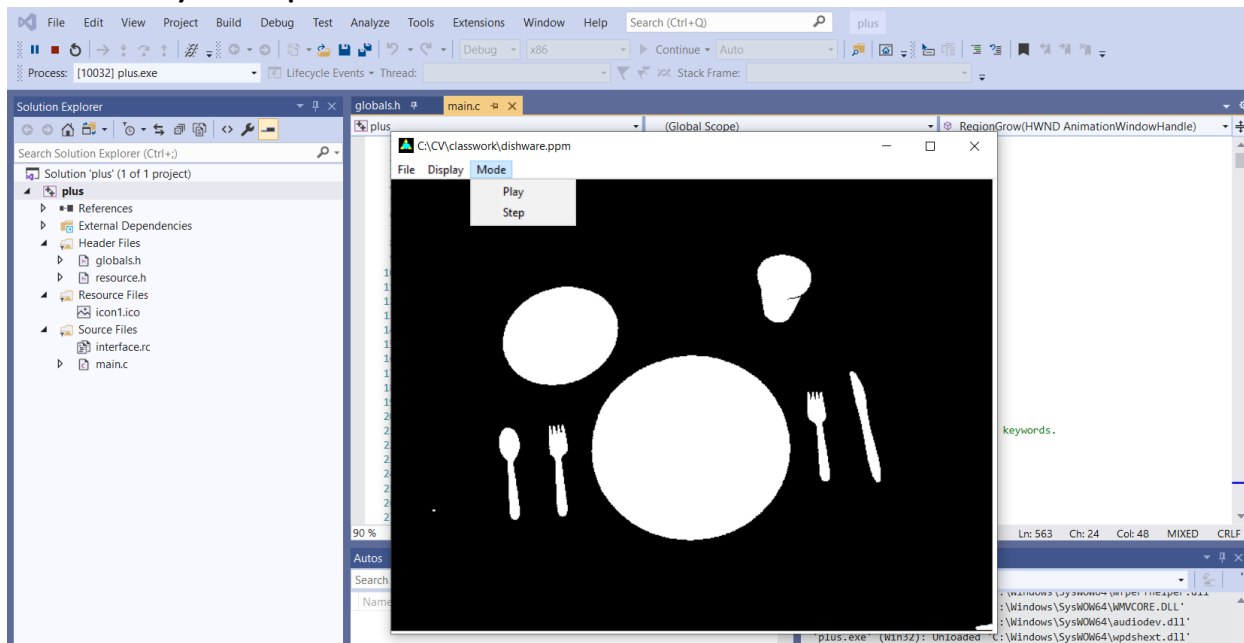## 7. Enter predicate inputs (intensity and distance thresholds)

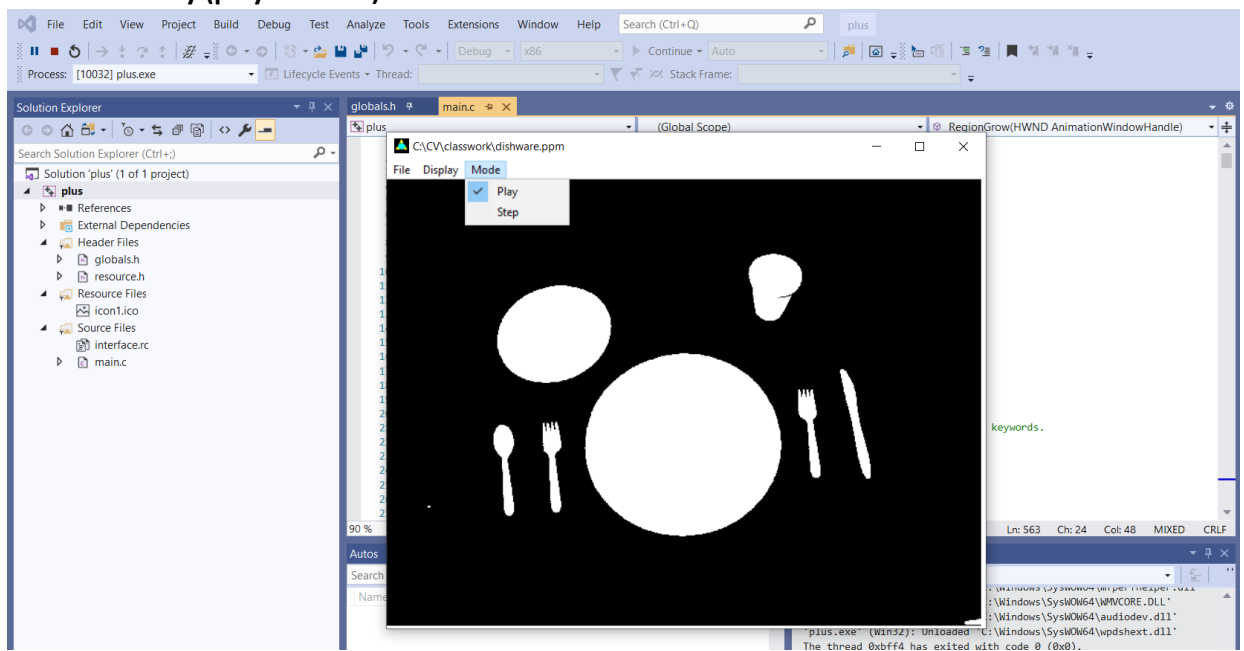## 8. Display: Show pixel coordinates, Clear and Choose Color
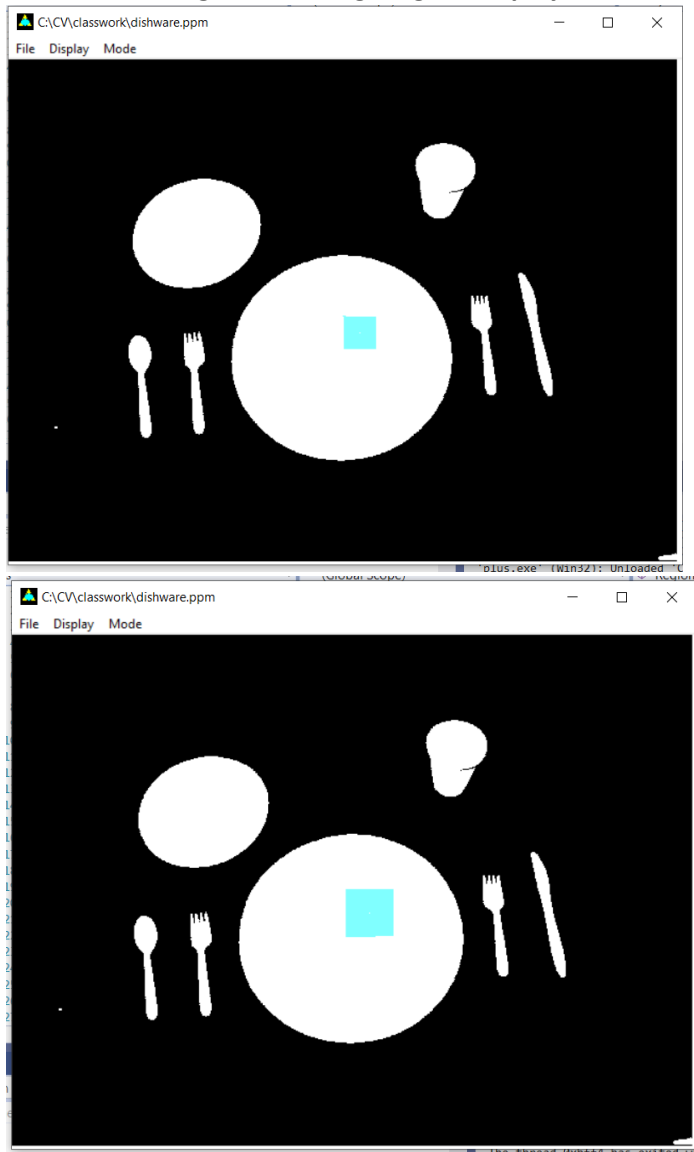

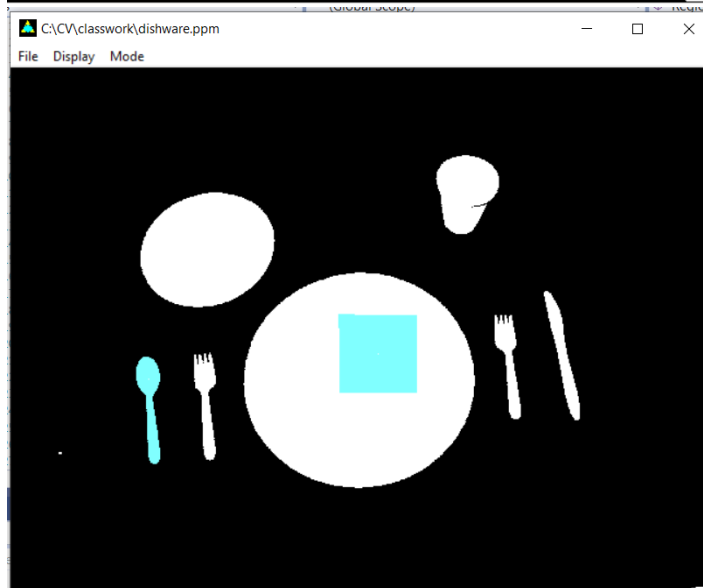## 9. Choose Color from color API
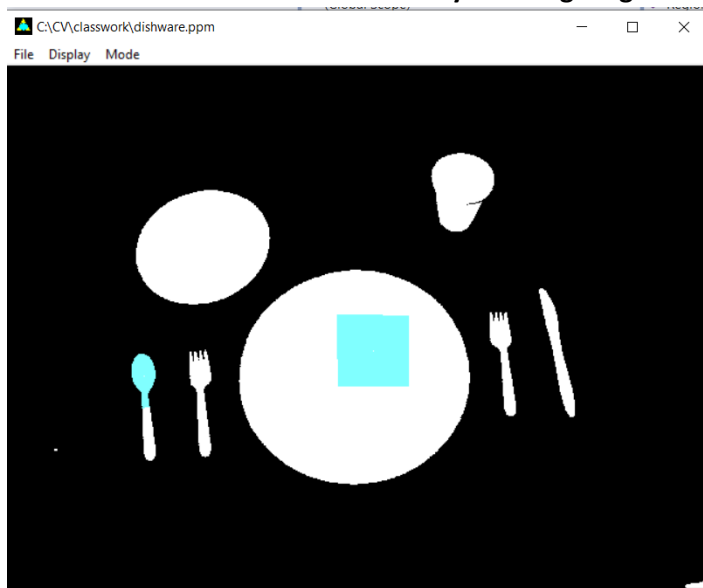
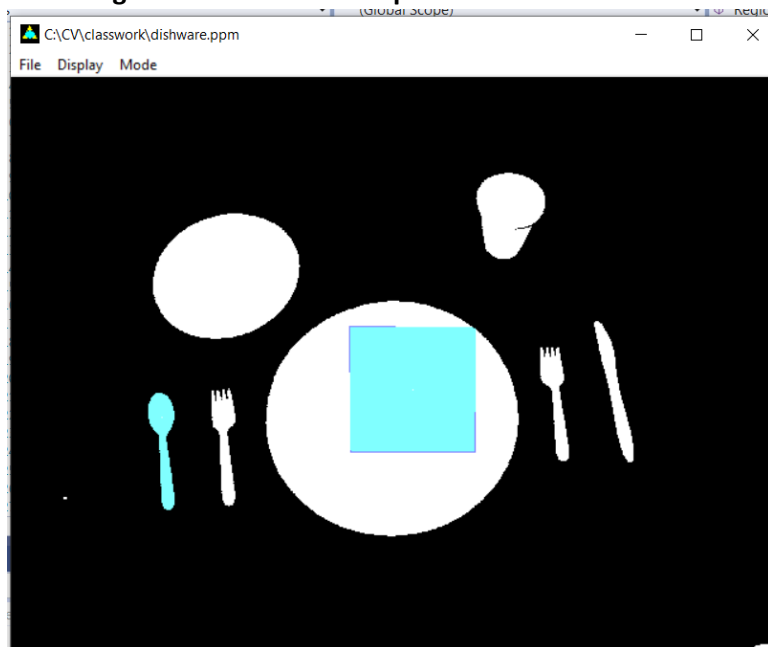## 10. Mode: Play and Step

11. Choose Play (play checked)

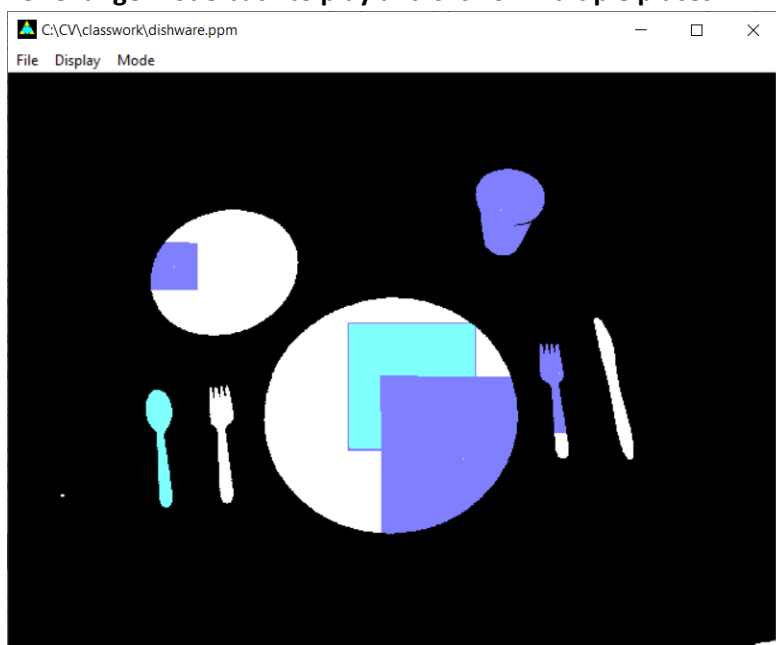## 12. Click on image to start region grow in play mode

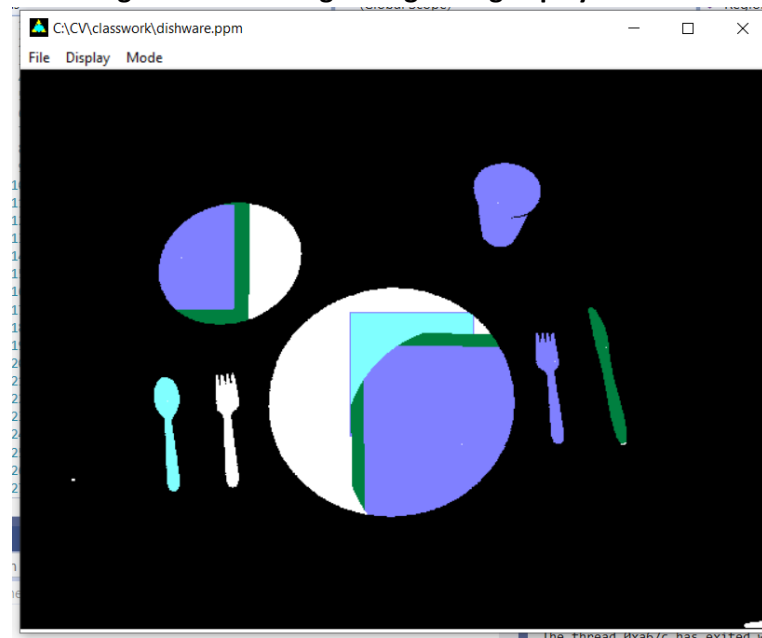**13. Click elsewhere to simultaneously start region grow in multiple places (multi-threading)**

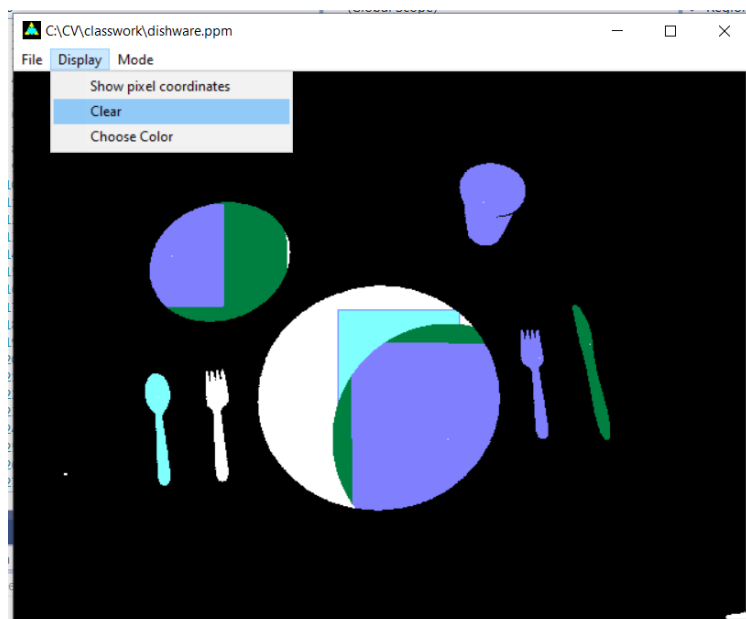## 14. Change color and enter "Step" mode

15. Change mode back to play and click on multiple places

16. Change color while region is growing in play mode

17. Clear region grow- revert back to original image

18. Mid-clearing