

CHUNG-ANG UNIVERSITY  
Department of Computer Science  
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Homework No. 2

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## Task

Write an interactive calculator program providing the following features using HTML, CSS, and JavaScript.

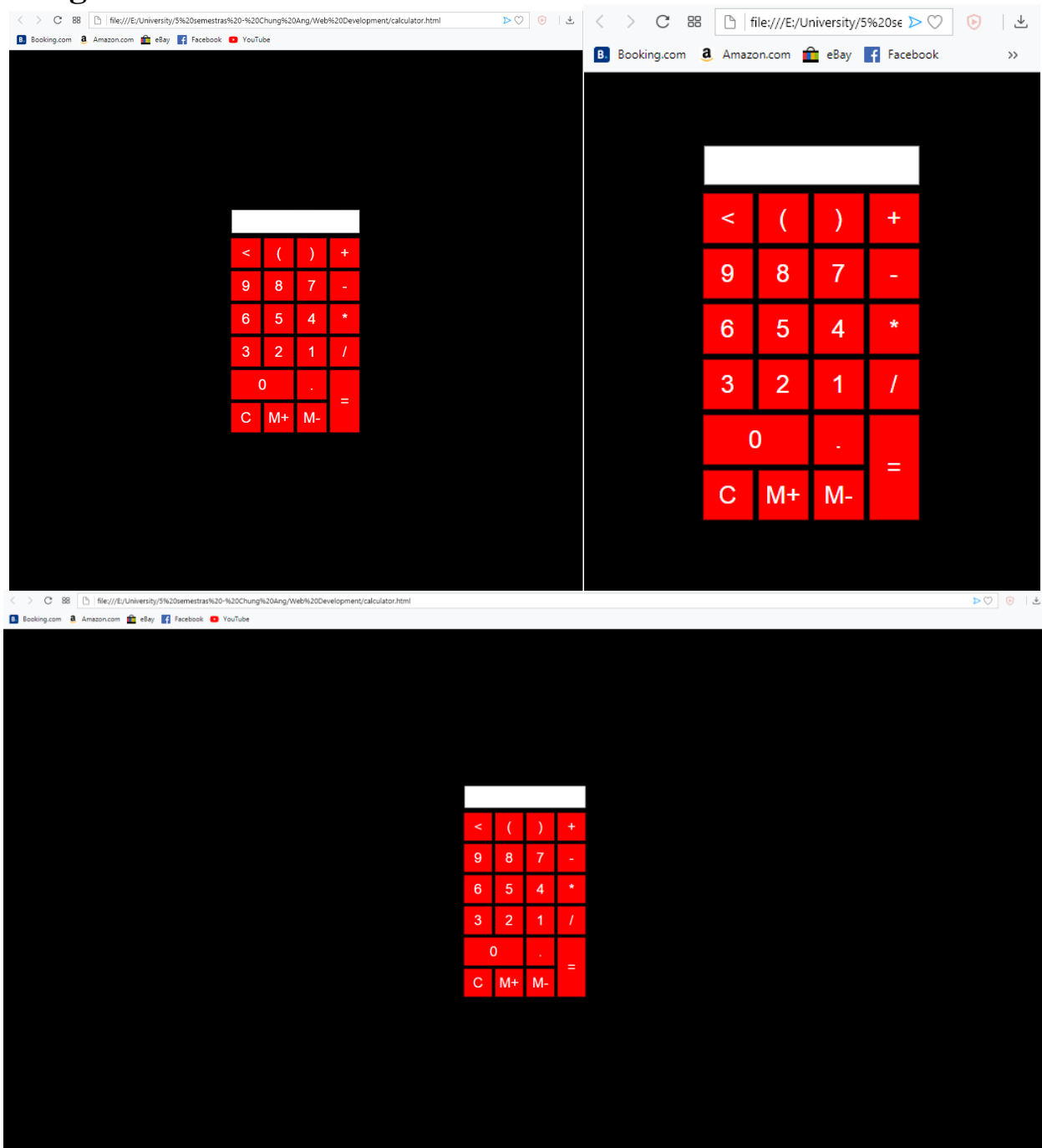
- Basic arithmetic operators (+, -, \*, /)
- Parenthesis
- Memory

## Approach

Using HTML, internal CSS and internal JavaScript, calculator was created. It has following functions:

- +, -, \*, /
- Clean
- Back
- Parenthesis
- Memory (save, retrieve functions)

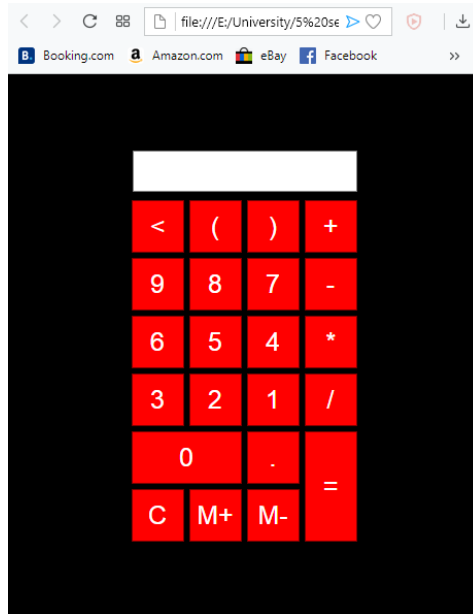
# Design



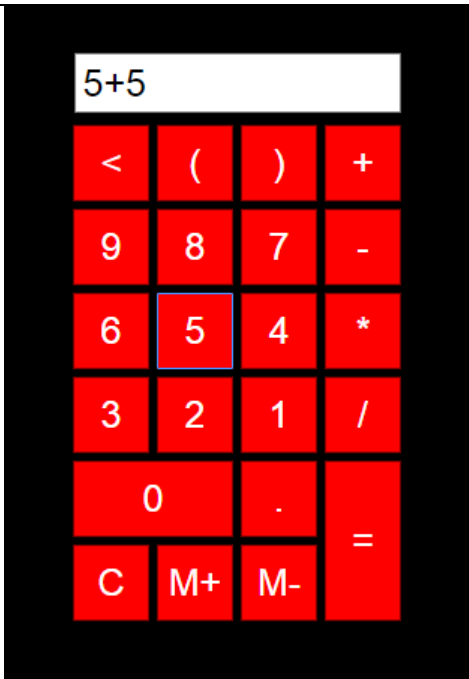
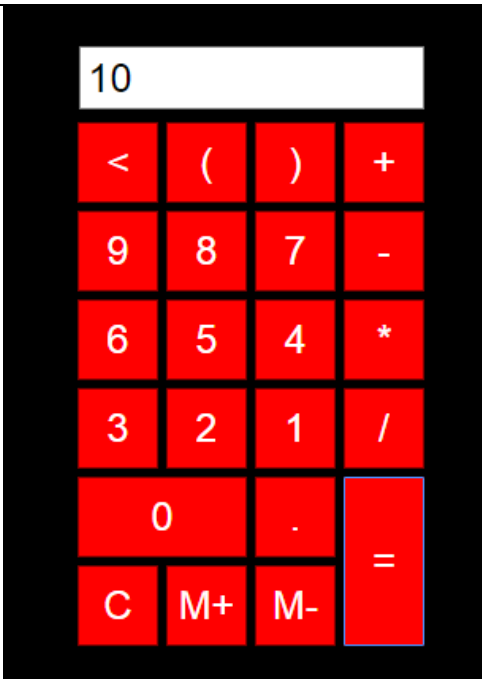
- As seen in the pictures, it has black background, red buttons and white display.
- Display is textbox.
- Buttons are in table to keep structure. Each button is in individual table's cell.
- Calculator always stays in the center of the page, disregarding the size of screen.

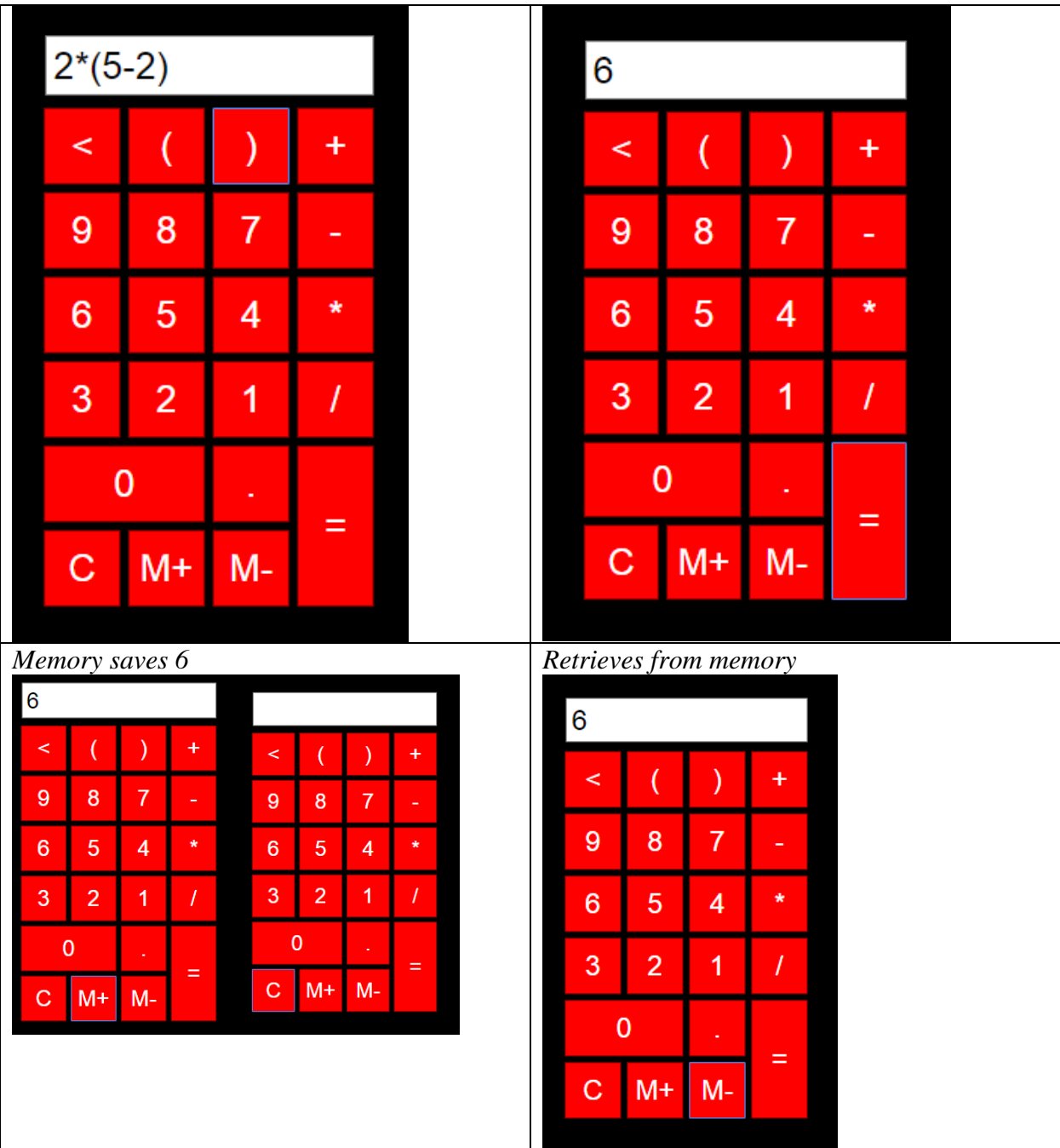
## Execution results

Running the code results in this:



Testing the functionality:

Test case	Result
 The calculator interface shows the input '5+5' in the display. The button '5' is highlighted with a blue border. The buttons are arranged in a 6x4 grid: Row 1: '<', '(', ')', '+'; Row 2: '9', '8', '7', '-'; Row 3: '6', '5', '4', '*'; Row 4: '3', '2', '1', '/'; Row 5: '0', '.', '='; Row 6: 'C', 'M+', 'M-'.	 The calculator interface shows the result '10' in the display. The '=' button is highlighted with a blue border. The buttons are arranged in a 6x4 grid: Row 1: '<', '(', ')', '+'; Row 2: '9', '8', '7', '-'; Row 3: '6', '5', '4', '*'; Row 4: '3', '2', '1', '/'; Row 5: '0', '.', '='; Row 6: 'C', 'M+', 'M-'.



## References

1. [YouTube](#)
2. [FreeCodeCamp](#)