Web Application Engineering (CSCI – 4135)

Midterm Exam (Spring 2024)

Due by: April 2nd, 2024

Note: Please follow below instructions carefully:

- You can refer to the textbooks/class notes or any materials posted on blackboard (lecture slides, solutions to class works/assignments etc.).
- You can ask me questions for clarification by email or through zoom.
- Please upload your code so that I can execute them to verify the output.
- If you need additional time, you can email me.
- Attempting one question is mandatory. You can attempt any additional question(s) to earn extracredit.

Attempt any one question.

Use only **JavaScript** as your scripting language, wherever it is necessary. You will also need to use **Bootstrap** classes/navigation bars for some problems.

1. Create a web page resembling the following:

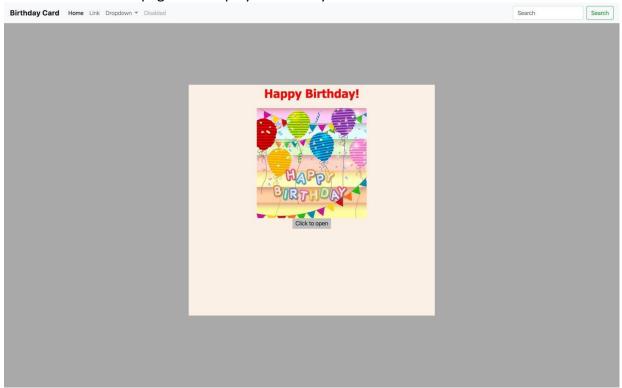


Once you have visited all the links, the color of the links should change to magenta:



Note: Clicking on any of the link should take you to the corresponding web page on Stockton portal.

2. Create a web page that displays a birthday card as follows:



• Once we click on the button "Click to open", the front page should be flipped gently to display theinside of the card:



• Once we click on "Click to close", we should go back to the front page of the card.

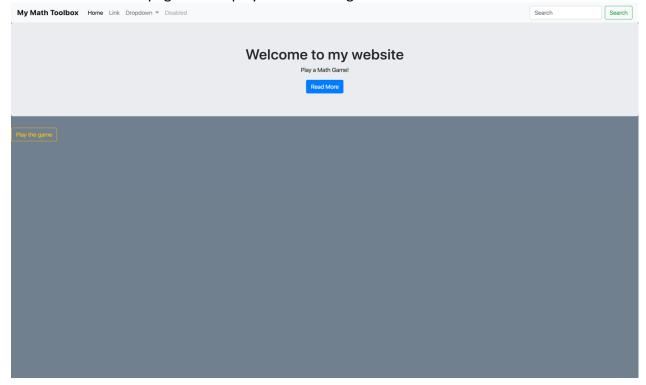
[Hint: To flip the front page of the card, use the CSS transform property. You can define two functionsopen_card() and close_card() and call them in response to the **onclick** event of the respective buttons:

```
function open_card() {
  document.getElementById('outside').className = 'open-
  card';
}

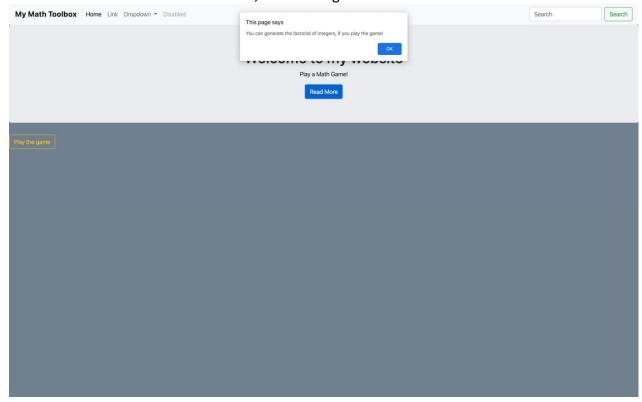
function close_card() {
  document.getElementById('outside').className = '';
}
```

where 'outside' is the <div> of the front page of the card. Then define the appropriate classes in a stylesheet.]

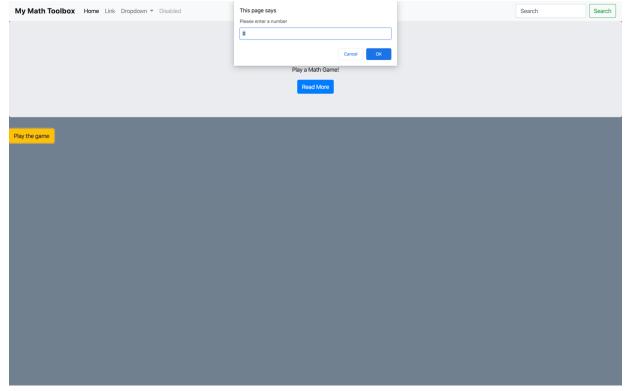
3. Create a web page that displays the following:



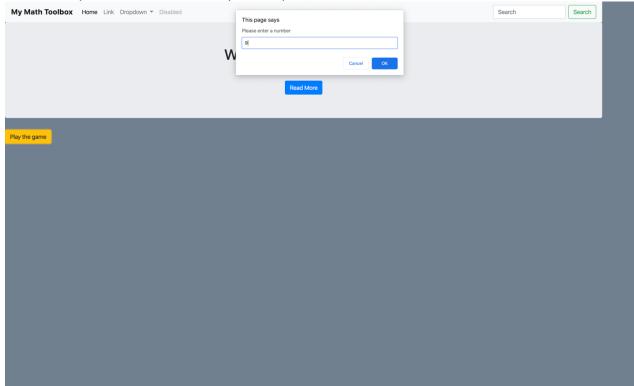
• Once we click on "Read More", we should get an alert box:



• Once we click on "Play the Game", it should ask for an input:



• We provide a number as input and press OK



• Once we press OK, it should generate the following output:

