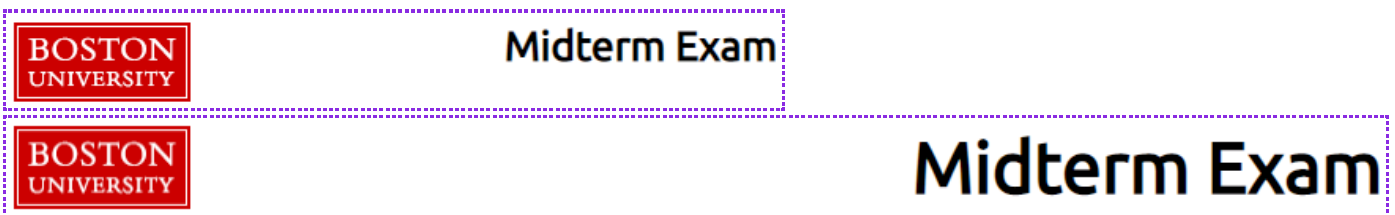Please all of the questions below in their own .html file. Once you complete all ten (10) questions, zip up all your files (images, css, HTML, etc...) and upload just one (1) file to blackboard.

1. Replicate this image, using only div element(s) and CSS.

2. Using CSS and HTML, place the BU logo (get it here: http://bit.ly/2KzWADI) on the far right side (hugs the right side) and an h1 element that has the words, "Midterm Exam" on the left (hugs the left).

If I resize the browser, the font should scale (down or up, depending on the browser size) The image and h1 elements should always stay pegged to the right or the left sides, as specified.

3. Have a HTML page that has at least five (5) div elements, each with a unique ID and title. Each div will have an ID attribute that is structured like this: "div_[1..5]"

   This question has 2 parts:

   - Using the correct jQuery API, when your DOM is locked and loaded, use a for loop to attach callbacks to each div. These callbacks will output the ID value to the console with the current timestamp in front when it is clicked upon. Do not use .onclick(), inline javascript or <div onclick="..."> (Use the approach(es) we learned in class) The text showing in the console should be like this: *At 6/26/2019 7:23 PM EST div_4.*
   - Using correct API method, attach the onmouseover event to those same 5 div elements and dynamically output that element's title to a div element with the ID of "messages" - using its innerText attribute, when I move the mouse over it. the div with the "messages" ID, should already exist in your HTML page.

4. The following object literal is broken. Find all the problems it has and fix them. Do not delete anything -just fix it all so that it works.
   { first-name; Andrew, age = 4; date of birth: 888w82388x.5; var = ['harry', potter], {a/b;x=1,x-x:1]}

5. Create 10 paragraphs and/or div elements in a page.
   Target about 5 of them. When any of these elements are clicked on decide: if visible - make it invisible, except to show a border (A thin blue, dotted 1 pixel border) around that element. But, If I click it again, show it and remove the border on it.

6. Write/Code syntax-correct examples of all the different ways to create functions in JavaScript
   using event handlers or callbacks on targets in your HTML page.

7. Show how you create an array of 10 strings and assign to a variable in an embedded script.
   No HTML is required. You may just answer with a script element or .js file

8. Show how you properly the DOMContentLoaded event with an example
   by attaching or binding a new event to some element in your page. It could be any event - mouse over, click on, hover upon..

9. What is wrong with this code?

```
int k = 0;
const 8ball = "grilled cheese";

if ( const i = 1: i < j: i++) {
{
    document.alert("I"d like to have tomatoes with my &{8ball} and a slice of deli ham on the side, please...");
}
```

10. This last question is tough. Give it your best effort.

For this question assume you have a test page for Expedia.com. You want to test 2 textfields that use a date picker that raise a message to the user, based on the dates they pick. (You can use any datepicker - your choice). The first date picker has a placeholder that says "Departing On" and the other (to the right of it) has another date picker that has a placeholder for "Returning On". After the user indicates their departing and return dates, you calculate the number of travel dates between those dates.

Only show a message after both dates have been indicated. Have logic checks in place, in case of:

- If the return date is before the depart date, say, It appears your dates are inverted. Please correct.
- If the return date is more than 1 month, just say, "You have a 30+ day duration. Please make sure your dates are correct.
- If the depart date is equal to the return date, say, "It appears you are coming back on the same day as your departure. Please make sure this is correct.
- If the travel duration is greater then 1 year, say, It appears your travel is greater then 1 year. Please make sure this is correct.