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8:00:00 AM to 9:40:00 AM
Total Marks: 50

Instructions:

- Answer all four questions here.
- For Question 4, push your code to a GitHub repository and paste the link here.
- Click 'Submit & Generate PDF' to get the PDF with your answers.
- Send this PDF in a Piazza post shared with instructors.
- Submission must be made by 9:40:00 AM

Question 1 (5 marks)

1.1 Why is the order of script injection important in a HTML page? (2)

Your answer

order of script is important because the browser will execute those function which are present in the first javascript file than the next javascript file and it goes on,so if we declare a function which is present in lower order javascript file and we call that function from higher order script file than there will be an error

1.2 Explain what could go wrong in the following script injection use case: (3)

Declaring script at the beginning of your HTML document

```
...
<script> var el = document.getElementById('testID'); ... </script>
...
<div id='testID'>hello</div>
...
```

Your answer

script will load before the html tag which will result into an error

Question 2 (8 marks)

2.1 Given the following CSS & HTML:

```
* { margin: 5px }
.star {color: blue; font-size: 2em; text-align: center;}
.star p {color:white;}
p {color:red;}
```

```
<div class='star'>
  <div style='font-size:1em; color: yellow;'>
    <p>...</p>
  </div>
</div>
```

What is the final CSS applied to the<p>tag? (4)

Your answer

color of <p> tag will be white

2.2 What array does the following bit of JavaScript print out? (4)

```
var a = [1, null, , 2, 5, 6];
console.log( [ a[4], a[2], a[1], a[6], a[5] ] );
```

Your answer

5
undefined
null
undefined
6

Question 3 (7 marks)

3.1 Give the following JavaScript object:

```
var programming = {
  languages: [ 'JavaScript', 'Python', 'Ruby' ],
  isChallenging: true,
  isRewarding: true,
  difficulty: 8,
  jokes: 'stackoverflow.com/questions/234075/what-is-your-best-programmer-joke'
};
```

Using a loop, write the code to<code>console.log</code>all of the keys in the<code>programming</code>object. (4)

Your answer

```
var key = Object.keys(programming)
for (var i =0;i<key.length;i++){
  console.log(key[i])
}
```

3.2 Given the following HTML:

```
<div id='special'>
  <span> random text </span>
  <p> some more random text,
    <div> next itâ<"s </div>
  <div> special text </div> // select this div
</p>
</div>
```

Write jQuery code to select the<code>div</code>tag and return the text inside it. (3)

Your answer

```
$('#special').children('p').children('div').eq(1).text()
```

Question 4 (30 marks)

Using HTML, CSS and JavaScript/jQuery develop the following frontend web application:



Simple Hangman - Features:

- Users can pick an index from an array of words - ["education", "technology", "mathematics", "science", "engineering", "arithmetic"]
- Based on the length of the word at the selected index, the user see's the empty dashes for each alphabet in the word.
- The dashes for vowels (a, e, i, o, u) are highlighted in a different color.
- When the user enters a guess alphabet in the input, if a match exists the alphabet is added to the corresponding dash.
- If a match is not found, a "Wrong! :(" message is shown to the user.
- HINT: Use split() to convert selected word into an array of characters, and indexOf() to find a match against the guess.

Your GitHub code repository link:

<https://github.com/mirsahib/mid-q4>