**MATRIX COLLEGE**

**MID TERM EXAM**

**WEB PROGRAMMING**

**FALL 2021**

**INSTRUCTOR: SUTHAKHAR PONNAMBALAM**

INSTRUCTIONS:

1. Answer all the questions.
2. Submission should only be a .pdf file(firstname\_lastname\_studentid). No other file types will be accepted.
3. Do not paste code or include screenshots, you have to write them wherever needed.
4. The maximum time limit is 11 am EST. Any delayed submission will incur 10% penalty per day.
5. **Avoid plagarism at all costs.**

**SECTION – I (10 \* 1 = 10)**

1. What is the proper way to include internal css.
2. <style>
3. <link>
4. <rel>
5. <script>
6. What is the css code for including a flexbox?
7. Display: flexbox;
8. Display: flex;
9. Display = “flex”;
10. None of the above
11. The default flex direction is ?
12. Row
13. Column-reverse
14. Row-reverse
15. Column
16. HTML is a \_\_\_\_\_\_\_\_\_\_ language.
17. Design
18. Style
19. Markup
20. Let and const have what advantage over var?
21. Easy to use
22. Scope
23. Functions
24. All of the above
25. == is also called as?
26. Loose comparison
27. Strict comparison
28. Inequality
29. Px, pt, cm are examples for \_\_\_\_\_\_\_\_\_\_ measurement usints.
30. Relative
31. Absolute
32. Deterministic
33. Undeterministic
34. The function parameters can have values predefined in them. True or false?
35. True
36. False
37. Which css property will be used to change the font type?
38. Font
39. Font-face
40. Font-family
41. Font-type
42. The primary and secondary axis in a flexbox as a column are?
43. Justify content, align items
44. Justify items, align content
45. Align content, justify content

**SECTION – II (5 \* 1 = 5)**

1. What does HTML and CSS stand for?

HTML = hypertext markup lanquage

CSS= cascading style sheets

1. Write the html code for linking “style.css” file using external css.

The<link> tag  is most often used to link to external style sheets.

<link rel = “stylesheet” src=”style.css”>

1. Write a multiline comment that states “This is a mid term exam. I am learning Javascript” in several lines.

 /\* This is a mid term exam.

I am learning Javascript **\*/**

1. Write a CSS snippet to create a div with three major box model properties.

div {  
  width: 300px;  
  border: 15px solid green;  
  padding: 50px;  
  margin: 20px;  
}

1. Write a JS snippet to declare a const variable and print it in console.

let x = 1

let y = 2

let z = 3

console.log( {x, y, z} )

**SECTION – III (10 \* 2 = 20)**

1. Write a JS snippet to determine if the current year is leap year or not.

function leapyear(year)

{

return (year % 100 === 0) ? (year % 400 === 0) : (year % 4 === 0);

}

console.log(leapyear(2021));

1. Write a JS program to determine if a given number is a prime number. If yes display “Prime” else display “Not a prime”

function test\_prime(n)

{

if (n===1)

{

return false;

}

else if(n === 2)

{

return true;

}else

{

for(var x = 2; x < n; x++)

{

if(n % x === 0)

{

return false;

}

}

return true;

}

}

console.log(test\_prime(26));

1. Write a JS program to find the largest of two numbers using functions. Use parametrs and return statements.

console.log("largest of 34,65 is ",getBiggest(34 ,65))

function getBiggest(n1,n2,){

if(n2>n1)

return n2

else if (n1> n2)

return n1

}

1. Write a HTML file that has one <h1>, a couple of <p> an ordered list<ol> and wrap all inside a <section> tag.

<section>  
<h1>introduction</h1>  
<p id = “one”>my name is raminderpreet</p>

<p id = “two”> I am study of matrix collage</p>

<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>  
</section>

1. Write a CSS for the html file in Q4. The two <p> tags should have different background color. USe hex codes only. The <ol> should have a list style type of roman numerals. The <section> should have a dashed border of red color.

# <section>

{

border-style: dashed;

color : red;

}

#one{

font-family: 'Impact';

color: red;

font-size: 25px;

#two{

font-family: 'Impact';

color: red;

font-size: 25px;

# <ol>

list-style-type: lower roman;

1. Write a simple code that has three <div> with three different background color. Set the height and width to 100px and 100px. Use flexbox to display them as.
2. Space-evenly
3. Flex-end
4. border: 1px #0000ff;
5. background: #0000ff;
6. width : 150px ;
7. height : 200px;
8. }
9. //flex end
10. .flex-container > div {
11. background-color: #f1f1f1;
12. width: 100px;
13. margin: 10px;
14. text-align: center;
15. line-height: 75px;
16. font-size: 30px;
17. Write a JS program that accepts an array of four numbers. (1, 2, 3 and 4)
18. Write a for loop that inserts the next four number at the end of the array)
19. Write a JS program to accept the string “ This is a mid term exam! “ as input.
20. Remove trailing spaces.
21. Use length to display the length of string
22. Retrieve the word “exam” and store in a variable called substring.
23. Write the CSS code for a <p> tag. Change the font type, line height and the space amongst the characters.

<p >letter spacing</p>

P { letter-spacing: 0.4em;

font-family: myFirstFont;

Line-height:2 rem;}

1. Write a JS program to display “hello” 10 times using do..while loop. Use continue when loop statement reaches value of 5.

**SECTION – IV (3 \* 5 = 15)**

1. Write a JS program that accepts two numbers as input, say start and end. Pass the two numbers as paramters to the function “prime”. Display all the numbers between the range that are prime.
2. Write a JS program that accepts a string as input. Write a program to check if the string is a palindrome or not

Function checkpalindrome(str) {

Const arrayValues = string.split('');

Const reverseArrayValues = arrayvalues.reverse();

Const reverseString = reserveArrayValues.join(‘’);

If (string == reverseString) {

Console.log(“it’s a palindrome”);

}

Else{

Console.log(“its not a palindrome”);

}

}

Const string =prompt(‘enter the string”);

Checkpalindrone(string);

1. Write a HTML and CSS file using bootstrap to display a <nav> bar with atleast four nav elements and one nav brand. IT should be responsive and should have a hamburger icon when minimised,
2. <!doctype html>
3. <html lang="en">
4. <head>
5. <!-- Required meta tags -->
6. <meta charset="utf-8">
7. <meta name="viewport" content="width=device-width, initial-scale=1">
8. <!-- Bootstrap CSS -->
10. <link rel="stylesheet" href="class5.css">
11. <title>Hello, world!</title>
12. </head>
13. <body>
14. <nav class="navbar navbar-expand-lg navbar-light bg-light">
15. <div class="container-fluid">
16. <a class="navbar-brand" href="#">MyBrand</a>
17. <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
18. <span class="navbar-toggler-icon"></span>
19. </button>
20. <div class="collapse navbar-collapse" id="navbarNav">
21. <ul class="navbar-nav">
22. <li class="nav-item">
23. <a class="nav-link" aria-current="page">Home</a>
24. </li>
25. <li class="nav-item">
26. <a class="nav-link" href="#">Features</a>
27. </li>
28. <li class="nav-item">
29. <a class="nav-link" href="#">Pricing</a>
30. </li>
31. <li class="nav-item">
32. <a class="nav-link disabled">Conatct Us</a>
33. </li>
34. </ul>
35. </div>
36. </div>
37. </nav>
38. <h1>Hello, world!</h1>
39. <button type="button" class="btn btn-primary btn-lg">Submit</button>
40. <button type="button" class="btn btn-secondary" disabled>Submit</button>
41. <button type="button" class="btn btn-success">Submit</button>
42. <button type="button" class="btn btn-danger">Submit</button>
43. <button type="button" class="btn btn-dark">Submit</button>
44. <button type="button" class="btn btn-warning">Submit</button>
45. <button type="button" class="btn btn-outline-warning btn-sm">Submit</button>
46. <button type="button" id="uniqueButton">Normal button</button

**STUDENT NAME:**

**POINTS SCORED:**