**HTML**

1. **What is HTML? Write basic structure of an HTML template.**

HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages.HTML describes the structure of a Web page.HTML consists of a series of elements. HTML elements tell the browser how to display the content

2. **Define HTML elements and tags. Discuss the major differences.**

**3. Define attributes in HTML with examples?**

**4. What are the HTML tags used to display the data in the tabular form?**

**5. What is an Anchor tag in HTML when it is used?**

**6. What are some of the common lists that can be used when designing a page?**

**7. Define forms in HTML and create a simple form?**

**8. What is semantic HTML. Explain with example.**

**9. What is a marquee?**

**10. What is the use of an iframe tag?**

**11. What is Cell Spacing and Cell Padding?**

**12. What is the difference between DIV and SPAN in HTML?**

**13. Why is the Embed Tag Used in HTML?**

**CSS**

**1. Define CSS and state the major difference between HTML and CSS.**

**2. How can you integrate CSS on a web page?**

**3. What is Embedded Style Sheet? List the advantages.**

**4. What is a CSS selector? Explain contextual selectors?**

**5. What is the RGB stream?**

**6. Explain the CSS Box Model and its different elements.**

**7. What is the property that is used for controlling image-scroll?**

**8. What is the use of CSS Opacity?**

**9. What is RWD?**

**10. What are the benefits of CSS sprites?**

**11. What is the float property of CSS?**

**12. Explain the difference between visibility: hidden and display: none?**

**13. What is Block Formatting Context? How does it work?**

**14. What is the difference between a relative, fixed, absolute and statically positioned element?**

**Bootstrap**

**1. Define Bootstrap. List the features.**

**2. Define the key components of Bootstrap.**

**3. What do you understand by Bootstrap container and class loader**

**4. How many types of layouts are there in Bootstrap?**

**5. Why do we use Jumbotron in Bootstrap?**

**6. When will you use <code>tag and <pre>tag?**

**7. What are responsive utility classes in Bootstrap? Give examples.**

**8. Explain bootstrap alerts and thumbnails?**

**9. What is Bootstrap breadcrumb?**

**10. What is pagination in bootstrap and how are they classified?**

**11. What is Normalize in Bootstrap?**

**12. How navbar works in Bootstrap and how can you create one?**

**13. What is the grid system and grid classes in Bootstrap?**

**Java script**

**1. Define Java script. Enumerate the differences between Java and JavaScript?**

**2. What are JavaScript Data Types?**

**3. What is 'this' keyword in JavaScript?**

**4. What are all types of Pop-up boxes available in JavaScript?**

**5. What is the difference between === operator and == operator?**

**6. Explain what is pop () and push()method in JavaScript?**

**7. Explain try n catch concept in java string using examples.**

**8. Explain error and exception handling with examples.**

**9. Write a program to reverse a string.**

**Ans:**

var str="sample string";

console.log(str.split('').reverse().join(''));

**PS C:\Users\hp\Documents\GitHub\meanstack\_luminar\Assesment> node .\reverse.js**

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**10. Write a JavaScript program to find the Armstrong numbers of 3 digits.**

**Ans.**

var sum = 0;

for (var i = 101; i <= 999; i++) {

    armstrong(i);

}

function armstrong(num) {

    var temp = num;

    while (num > 0) {

        rem = num % 10;

        num = Math.floor(num / 10);

        sum += rem \*\* 3;

    }

    if (sum == temp) {

        console.log(temp);

        sum = 0;

    }

    else {

        sum = 0;

    }

}

**PS C:\Users\hp\Documents\GitHub\meanstack\_luminar\Assesment> node .\armstrong.js**

**153**

**370**

**371**

**407**

**11. Write a JavaScript program to construct the following pattern, using a nested for loop.**

**\***

**\* \***

**\* \* \***

**\* \* \* \***

**Ans:**

for (let i = 0; i < 4; i++) {

    var str = "";

    for (let j = 0; j <= i; j++) {

        str += "\* ";

    }

    console.log(str);

}

**PS C:\Users\hp\Documents\GitHub\meanstack\_luminar\Assesment> node .\pattern.js**

**\***

**\* \***

**\* \* \***

**\* \* \* \***

**12. Write a JavaScript program which compute, the average marks 5students students of your choice Then, this average is used to determine the corresponding grade.**

**Ans:**

var student = [

    { "rollno": 101, "name": "Amal", "sub1": 70, "sub2": 80, "sub3": 75, "sub4": 50, "sub5": 55 },

    { "rollno": 102, "name": "Ajay", "sub1": 60, "sub2": 85, "sub3": 65, "sub4": 70, "sub5": 65 },

    { "rollno": 103, "name": "Anuj", "sub1": 80, "sub2": 50, "sub3": 85, "sub4": 90, "sub5": 75 },

    { "rollno": 104, "name": "Arun", "sub1": 90, "sub2": 70, "sub3": 95, "sub4": 80, "sub5": 85 },

    { "rollno": 105, "name": "Balu", "sub1": 60, "sub2": 90, "sub3": 65, "sub4": 70, "sub5": 95 }]

function calc(avg) {

    console.log(avg);

    var grade;

    if ((avg > 90) && (avg < 100)) {

        grade = 'A';

    }

    else if ((avg > 80) && (avg < 89)) {

        grade = 'B';

    }

    else if ((avg > 70) && (avg < 79)) {

        grade = 'C';

    }

    else {

        grade = 'F';

    }

    return grade;

}

var res = student.map(ob => ob["avg"] = (ob.sub1 + ob.sub2 + ob.sub3 + ob.sub4 + ob.sub5) / 5);

student.map(ob1 => ob1["grade"] = calc(ob1.avg));

console.log(student);

**PS C:\Users\hp\Documents\GitHub\meanstack\_luminar\Assesment> node .\student.js**

**66**

**69**

**76**

**84**

**76**

**[**

**{**

**rollno: 101,**

**name: 'Amal',**

**sub1: 70,**

**sub2: 80,**

**sub3: 75,**

**sub4: 50,**

**sub5: 55,**

**avg: 66,**

**grade: 'F'**

**},**

**{**

**rollno: 102,**

**name: 'Ajay',**

**sub1: 60,**

**sub2: 85,**

**sub3: 65,**

**sub4: 70,**

**sub5: 65,**

**avg: 69,**

**grade: 'F'**

**},**

**{**

**rollno: 103,**

**name: 'Anuj',**

**sub1: 80,**

**sub2: 50,**

**sub3: 85,**

**sub4: 90,**

**sub5: 75,**

**avg: 76,**

**grade: 'C'**

**},**

**{**

**rollno: 104,**

**name: 'Arun',**

**sub1: 90,**

**sub2: 70,**

**sub3: 95,**

**sub4: 80,**

**sub5: 85,**

**avg: 84,**

**grade: 'B'**

**},**

**{**

**rollno: 105,**

**name: 'Balu',**

**sub1: 60,**

**sub2: 90,**

**sub3: 65,**

**sub4: 70,**

**sub5: 95,**

**avg: 76,**

**grade: 'C'**

**}**

**]**

**Q 1. Develop any webpage of your interest using the technologies that you have learned.**