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DEPT : Electronics and TeleCommunication Engineering

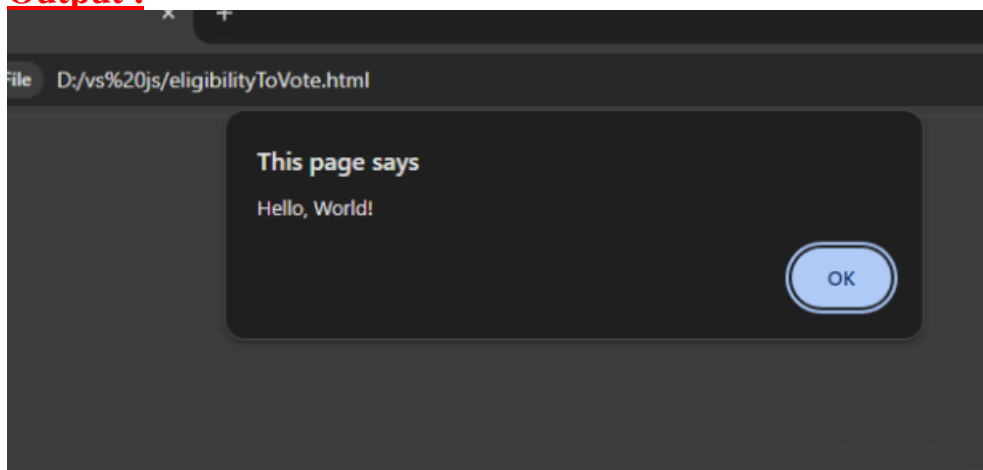
## MERN STACK TASK(Q1-Q10)

**TASK 1: Write a simple script that displays “Hello, World!” on the web page using an alert box.**

**Program :**

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      hi
    </title>
  </head>
  <body>
    <h1>
      Hello Everyone!!!!
    </h1>
    <script>
      alert("Hello, World!");
    </script>
  </body>
</html>
```

**Output :**



**TASK 2 : Experiment with different data types in JavaScript (e.g., string, number, boolean) by declaring and logging them in the console.**

**Program :**

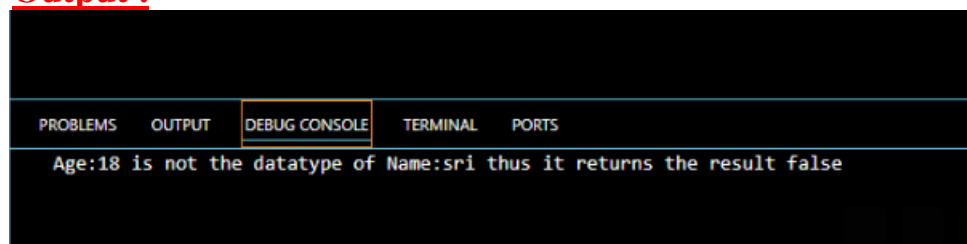
```
<!DOCTYPE html>
<html>
```

```

<head>
  <title>
    hi
  </title>
</head>
<body>
  <h1>
    Sri Nithyasri-717823T153
  </h1>
  <script>
    let age=18;//integer
    let name="sri";//string
    var result=(typeof(age)==typeof(name));
    document.writeln(result);//boolean
    console.log("Age:"+age+ " is not the datatype of Name:"+name +"
thus it returns the result " +result);
  </script>
</body>
</html>

```

### **Output :**



### **TASK 3: Use the console to perform basic math operations like addition, subtraction, multiplication, and division.**

#### **Program :**

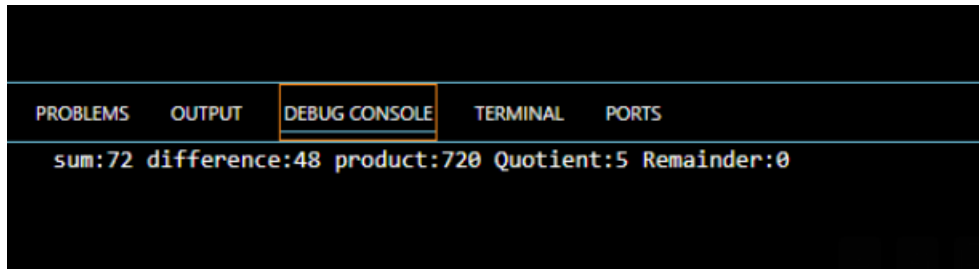
```

<!DOCTYPE html>
<html>
  <head>
    <title>
      hi
    </title>
  </head>
<body>
  <h1>
    Sri Nithyasri-717823T153
  </h1>
  <script>
    let a=60;
    let b=12;

```

```
        console.log("sum:" + (a+b) + " difference:" + (a-b) + " product:" +  
(a*b) + " Quotient:" + (a/b) + " Remainder:" + (a%b));  
    </script>  
</body>  
</html>
```

**Ouput :**

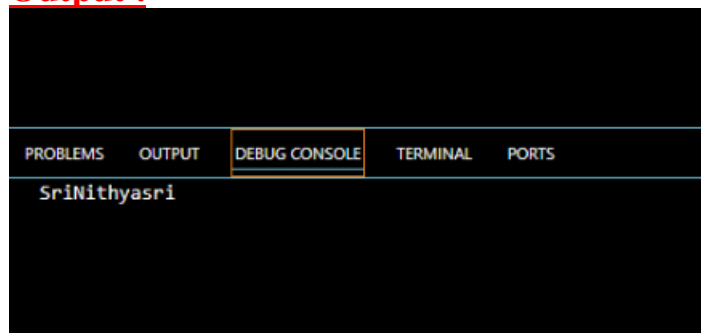


#### **TASK 4: Declare two strings and concatenate them using the + operator.**

##### **Program :**

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      hi
    </title>
  </head>
  <body>
    <h1>
      Sri Nithyasri-717823T153
    </h1>
    <script>
      let name="Sri";
      let name1="Nithyasri";
      console.log(name+name1);
    </script>
  </body>
</html>
```

##### **Output :**



#### **TASK 5 : Use the typeof operator to check the data type of various variables.**

##### **Program :**

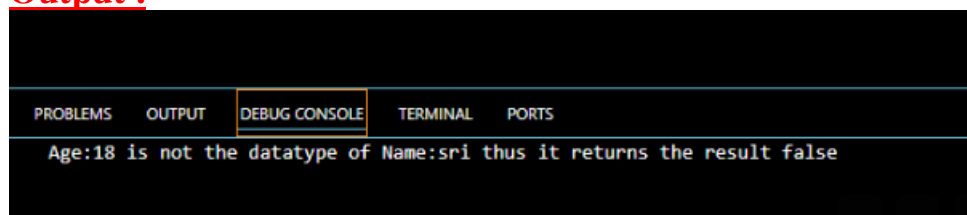
```
<!DOCTYPE html>
<html>
  <head>
    <title>
      hi
    </title>
  </head>
  <body>
    <h1>
      Sri Nithyasri-717823T153
```

```

</h1>
<script>
    let age=18;//integer
    let name='sri';//string
    var result=(typeof(age)==typeof(name));
    document.writeln(result);//boolean
    console.log("Age:"+age+ " is not the datatype of Name:"+name +"
thus it returns the result " +result);
</script>
</body>
</html>

```

### **Output :**



## **TASK 6: Write a multi-line JavaScript comment and a single-line comment. Explain the difference.**

### **Program :**

```

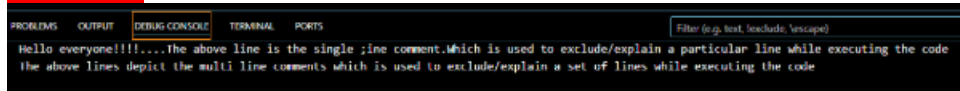
<!DOCTYPE html>
<html>
    <head>
        <title>
            hi
        </title>
    </head>
    <body>
        <h1>
            Sri Nithyasri-717823T153
        </h1>
        <script>
            //this is a single line comment
            console.log("Hello everyone!!!!....The above line is the single ;ine
comment.Which is used to exclude/explain a particular line while executing
the code");
            /*this is a multi
            line
            comment*/
            console.log("The above lines depict the multi line comments which is
used to exclude/explain a set of lines while executing the code");
        </script>
    </body>
</html>

```

</body>

</html>

### Output :



## **TASK 7: Create a script with both semicolon-separated and not separated lines. Note any differences in behavior.**

### **Program :**

<!DOCTYPE html>

<html>

<head>

<title>

hi

</title>

</head>

<body>

<h1>

Sri Nithyasri-717823T153

</h1>

<script>

//script with semicolon->runs comparatively faster

let a=14;

let b=15;

let sum=(a+b);

console.log(sum);

</script>

<script>

//script without semicolon->takes more time to run

let c=18

let d=15

let sum1=(c+d)

console.log(sum1)

</script>

</body>

</html>

### Output :

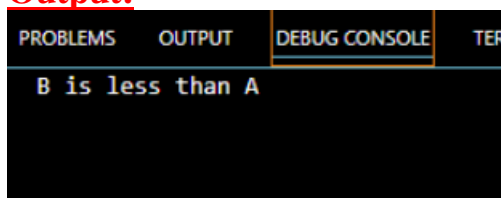


## **TASK 8: Use proper indentation to format a nested loop.**

### **Program :**

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      hi
    </title>
  </head>
  <body>
    <h1>
      Sri Nithyasri-717823T153
    </h1>
    <script>
      let a=90;
      let b=80;
      if(a<=b){
        if(a<b){
          console.log("A is less than B");
        }
        else{//a=b
          console.log("Both A and B are equal");
        }
      }
      else{
        console.log("B is less than A");
      }
    </script>
  </body>
</html>
```

### **Output:**

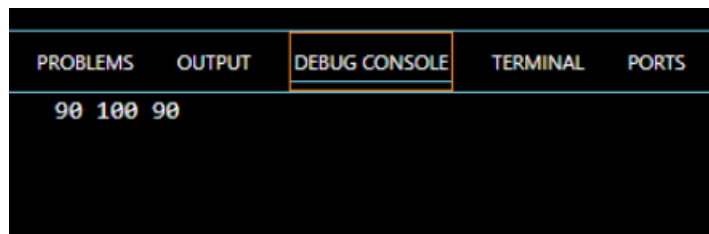


## **TASK 9: Declare multiple variables in a single line**

### **Program :**

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      hi
    </title>
  </head>
<body>
  <h1>
    Sri Nithyasri-717823T153
  </h1>
  <script>
    let a=90,b=100,c=90;
    console.log(a,b,c);
  </script>
</body>
</html>
```

### **Output :**





**TASK 10: Place a script tag at the top and bottom of an HTML document. Note any differences in behavior.**

**Program :**

```
<!DOCTYPE html>
<script>
<html>
  <head>
    <title>
      hi
    </title>
  </head>
<body>
  <h1>
    Sri Nithyasri-717823T153
  </h1>
  let a=90;
  console.log(a);
</body>
</html>
</script>
```

**Output :**

