1. **Write a PHP program which includes a function sum(). This function sum() should be designed to add an arbitrary list of parameters.(For Example: If you call the function sum() as sum(1,2) it should return the result 3 and if again you call the function sum() as sum(1,3,4) it should return the result 8.)**

   Index.html
   ```html
   <html>
     <head>
       <title>Arbitrary Function</title>
     </head>
     <script>
       function sum(...number){
         let sum=0;
         for(let n of number){
           sum=sum+n;
         }
         return sum;
       }
       console.log("Sum: "+sum(1,2))
       console.log("Sum: "+sum(1,2,6,8,10))
       console.log("Sum: "+sum(1,2,8,6))
     </script>
   </html>
   ```

2. **Write a program that displays the continuous time in the web page. The Time should be in format of HH:MM:SS.**
   Index.html
   ```html
   <html>
     <head>
       <title>Clock</title>
     </head>
     <body>
       <h1>Clock</h1>
       <h2>00:00:00</h2>
     </body>
     <script>
       let hrs=document.querySelector('#hrs');
       let min=document.querySelector('#min');
       let sec=document.querySelector('#sec');
       setInterval(()=>{
         let date = new Date();
         date=date.toLocaleTimeString();
         document.querySelector('h2').textContent=date;
       },1000)
     </script>
   </html>
   ```

3. **Write a Program to Create Chess Board in JavaScript Using Loop.**
   Index.html

```html
<html>
    <head>
        <title>Chess Board</title>
    </head>
    <style>
        td{
            height: 50px;
            width: 50px;
            background: white;
        }
        tr:nth-child(odd) td:nth-child(even){
            background: black;
        }
        tr:nth-child(even) td:nth-child(odd){
            background: black;
        }
    </style>
    <body>
    </body>
    <script>
        document.write("<table border='1'>");
        for(let i=0;i<=8;i++){
            document.write("<tr>");
            for(let j=0;j<=8;j++){
                document.write("<td></td>")
            }
            document.write("</tr>");
        }
        document.write("</table>");
    </script>
</html>
```

Index.html

```html
<html>
    <head>
        <title>Chess Board</title>
    </head>
    <style>
        td{
            height: 50px;
            width: 50px;
            background: white;
        }
        tr:nth-child(odd) td:nth-child(even){
            background: black;
```

```
            }
            tr:nth-child(even) td:nth-child(odd){
                background: black;
            }
        </style>
        <body>
        </body>
        <script>
            let board="<table border='1'>";
                for(i=0;i<=8;i++){
                    board+="<tr>";
                    for(j=0;j<=8;j++){
                        board=board+"<td></td>"
                    }
                    board+="</tr>";
                }
            board+="</table>";
            document.querySelector("body").innerHTML=board;
        </script>
    </html>
```

4. **Write JavaScript Code to Change Background Color of Web Page Every Second.**
   Index.html

```
        <html>
        <head>
            <title>Changing Background Color</title>
        </head>
        <body>
        </body>
        <script>
            let Random=(min,max)=> Math.floor(Math.random()*(max-min)+min);
            setInterval(function(){
                document.querySelector("body").style.backgroundColor =
`rgb(${Random(0,255)},${Random(0,255)},${Random(0,255)})`;
            },1000);
        </script>
        </html>
```

5. **Write a JavaScript Code to Calculate Factorial of Given Number Using arrow function.**
   Index.html

```
        <html>
        <head>
            <title>Factorial</title>
        </head>
        <body>
        </body>
        <script>
            let factorial=(num)=>{
```

```
                let fact=1;
                for(i=1;i<=num;i++)
                fact*=i;
                return fact;
        }
        let number=Number(prompt("Enter a Number: "));
        alert(`Factorial of ${number} = ${factorial(number)}`);
</script>
</html>
```

6. **Write a JavaScript Program to retrieve any value from server site scripting using Ajax.**
   index.html

```
        <html>
        <head>
                <title>AJAX</title>
        </head>
        <body>
                <p id="result">Loading....</p>
        </body>
        <script>
                let xhr=new XMLHttpRequest();
                xhr.open("GET","Data.php");
                xhr.onreadystatechange=()=>{
                    if(xhr.readyState===4 && xhr.status===200){
                        document.getElementById("result").innerHTML=xhr.responseText;
                    }
                }
        xhr.send();
</script>
</html>
```

   Data.php

```
        <?php
                if($_SERVER["REQUEST_METHOD"]=="GET"){
                        echo "Fetching Data Using AJAX";
                }
        ?>
```