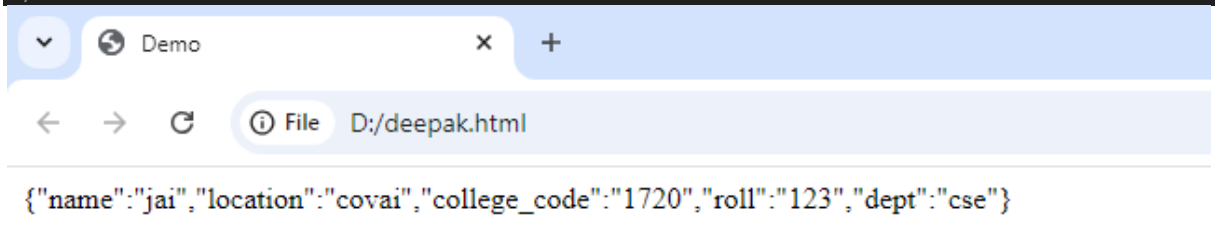
TASK 4

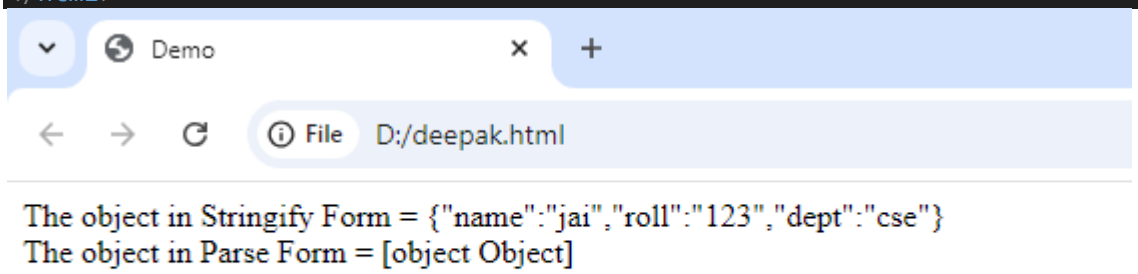
```
<!DOCTYPE html>
<html>
<head>
    <meta lang="en">
    <meta charset = "UTF-8">
    <meta name="viewport" content="width=device-width , initial-scale=1.0">
    <title>Demo</title>
</head>
<body>
     <script>
        function mainObject(obj1,obj2)
        {
            let object3={...college,...student};
            return object3;
        }
        let student={
            name:'jai',
            roll:'123',
            dept:'cse'
        };

      let college={
        name:"kce",
        location: "covai",
        college_code:'1720'
      };

      document.write(JSON.stringify(mainObject(college,student)));


      </script>
</body>

</html>
```




TASK 5

```
<!DOCTYPE html>
```

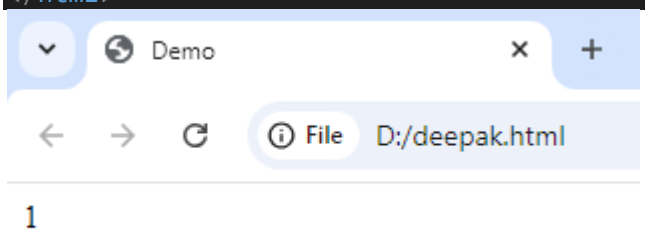
```
<html>
<head>
    <meta lang="en">
    <meta charset = "UTF-8">
    <meta name="viewport" content="width=device-width , initial-scale=1.0">
    <title>Demo</title>
</head>
<body>
     <script>
          let student={
            name:'jai',
            roll:'123',
            dept:'cse'
        };
          let objectString=JSON.stringify(student);
          document.write("The object in Stringify Form = "+
objectString+"<br>");
          let parseobj=JSON.parse(objectString);
          document.write("The object in Parse Form = "+ parseobj);



      </script>
</body>

</html>
```




TASK 1

```
<!DOCTYPE html>
<html>
<head>
    <meta lang="en">
    <meta charset = "UTF-8">
    <meta name="viewport" content="width=device-width , initial-scale=1.0">
    <title>Demo</title>
</head>
<body>
```

```
    <script>
       let count=0;
        function fun1()
        {

           return function()
           {
               count++;
               document.write(count);
           }
        }
        const  counter = fun1();
        counter()();


         </script>
</body>

</html>
```

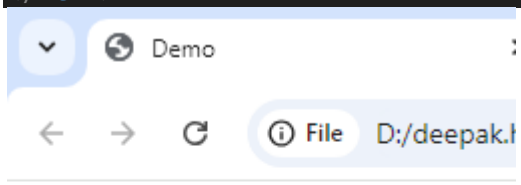



1

TASK 2

```
<!DOCTYPE html>
<html>
<head>
    <meta lang="en">
    <meta charset = "UTF-8">
    <meta name="viewport" content="width=device-width , initial-scale=1.0">
    <title>Demo</title>
</head>
<body>
     <script>
          function counter()
          {
            let count=0;
            return{
                counter1:function()
                {
                     count++;
                },
            getCount:function()
```

```
            {
                document.write(count);
            }

            };
        }
        let counterobj=counter();
        counterobj.counter1();
        counterobj.counter1();
        counterobj.counter1();
        counterobj.counter1();
        counterobj.getCount();



        </script>
</body>

</html>
```

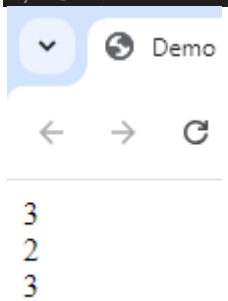



4

TASK 3

```
<!DOCTYPE html>
<html>
<head>
    <meta lang="en">
    <meta charset = "UTF-8">
    <meta name="viewport" content="width=device-width , initial-scale=1.0">
    <title>Demo</title>
</head>
<body>
     <script>
          function counter()
          {
            let count=0;
            return{
                counter1:function()
```

```
                {
                     count++;
                },
            getCount:function()
            {
                document.write(count +"<br>");
            }

            };
        }

        let con1=counter();
        let con2=counter();
        let con3=counter();

        con1.counter1();
        con1.counter1();
        con1.counter1();
        con1.getCount();

        con2.counter1();
        con2.counter1();
        con2.getCount();

        con3.counter1();
        con3.counter1();
        con3.counter1();
        con3.getCount();


        </script>
</body>

</html>
```




3
2
3

TASK 4

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

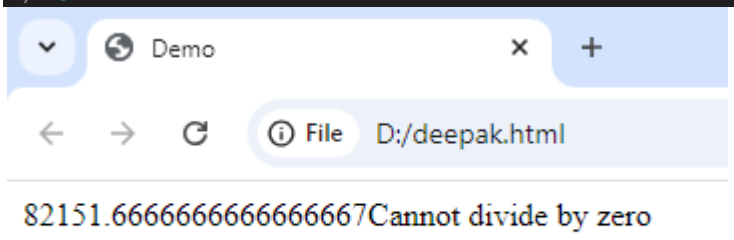
```
<head>
    <meta lang="en">
    <meta charset = "UTF-8">
    <meta name="viewport" content="width=device-width , initial-scale=1.0">
    <title>Demo</title>
</head>
<body>
     <script>
          function counter()
          {
            let count=0;
            return{
                counter1:function()
                {
                     count++;
                },
                decrement:function()
                {
                    count--;
                },
            getCount:function()
            {
                document.write(count +"<br>");
            }

            };
          }

          let con1=counter();
          let con2=counter();
          let con3=counter();

          con1.counter1();
          con1.counter1();
          con1.counter1();
          con1.decrement();
          con1.getCount();

          con2.counter1();
          con2.counter1();
          con2.decrement();
          con2.getCount();

          con3.counter1();
          con3.counter1();
          con3.decrement();
          con3.counter1();
          con3.getCount();
```

```
document.write(counter.count);
          </script>
</body>

</html>
```


TASK 5

```
<!DOCTYPE html>
<html>
<head>
    <meta lang="en">
    <meta charset = "UTF-8">
    <meta name="viewport" content="width=device-width , initial-scale=1.0">
    <title>Demo</title>
</head>
<body>
     <script>
     function operationFactory(operation) {
    return function(a, b) {
        switch (operation) {
            case 'add':
                return a + b;
            case 'subtract':
                return a - b;
            case 'multiply':
                return a * b;
            case 'divide':
                if (b === 0) return 'Cannot divide by zero';
                return a / b;
            default:
                return 'Invalid operation';
        }
    };
}
```

```
const add = operationFactory('add');
const subtract = operationFactory('subtract');
const multiply = operationFactory('multiply');
const divide = operationFactory('divide');

document.write(add(5, 3));
document.write(subtract(5, 3));
document.write(multiply(5, 3));
document.write(divide(5, 3));
document.write(divide(5, 0));

          </script>
</body>

</html>
```




TASK 1