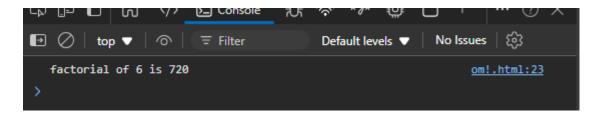
```
TASK 1:
```

```
<!DOCTYPE html>
<html lang="en">
    <head>
       <meta charset="UTF-8">
       <meta name ="viewport" content="width=device-width,initial-scale=1">
       <title> document</title>
    </head>
<body>
    <script>
     function factorial(n)
       if(n!=0)
    {
          return n * factorial(n - 1);
          else
       return 1;
     let num=prompt("enter num1");
     console.log("factorial of "+num+" is " +factorial(num));
     </script>
</body>
</html>
```

OUTPUT:



TASK 2:

```
<script>
     function fib(n)
       if(n>1)
         return fib(n-1) + fib(n-2);
          return n;//n=0,n=1
     let n=prompt("enter num1");
     console.log("fib of "+n+" is " +fib(n));
    </script>
</body>
</html>
OUTPUT:
                                              Default levels ▼ 👂 1 🔯
 fib of 8 is 21
                                                                     om!.html:19
TASK 3:
<!DOCTYPE html>
<html lang="en">
   <head>
       <meta charset="UTF-8">
       <meta name ="viewport" content="width=device-width,initial-scale=1">
       <title> document</title>
   </head>
<body>
   <script>
       function staircase(n){
     if(n === 0)
       return 1;
     if(n < 0)
     return 0;
     return staircase(n-1) + staircase(n-2) + staircase(n-3);
       let n=+prompt("enter n");
       console.log(staircase(n));
    </script>
</body>
</html>
OUTPUT:
                                                                    om!.html:19
```

TASK 4:

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8">
        <meta name ="viewport" content="width=device-width,initial-scale=1">
        <title> document</title>
    </head>
<body>
    <script>
      function flatten(arr) {
  let result = [];
  arr.forEach(item => {
   if (Array.isArray(item)) {
     result = result.concat(flatten(item));
    } else {
     result.push(item);
    }
  });
  return result;
  const nestedArray = [1, [2, 3], [4, [5, 6]], 7, [8]];
const flattenedArray = flatten(nestedArray);
console.log(flattenedArray);
</script>
</body>
</html>
```

OUTPUT:

```
      Image: Tell control of the property of the pro
```

TASK 5:

```
{
    return;
}
towerOfHanoi(n - 1, from_rod, aux_rod, to_rod);
document.write("Move disk " + n + " from rod " + from_rod +
    " to rod " + to_rod+"<br/>");
towerOfHanoi(n - 1, aux_rod, to_rod, from_rod);
}
var N = 3;
towerOfHanoi(N, 'A', 'C', 'B');
</script>
    </script>
    </script>
</body>
</html>
OUTPUT:
```

Move disk 1 from rod A to rod C Move disk 2 from rod A to rod B Move disk 1 from rod C to rod B Move disk 3 from rod A to rod C Move disk 1 from rod B to rod A Move disk 2 from rod B to rod C Move disk 1 from rod A to rod C