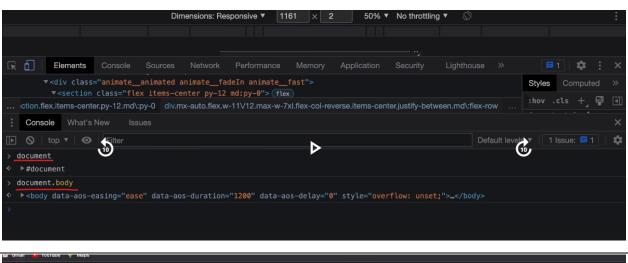
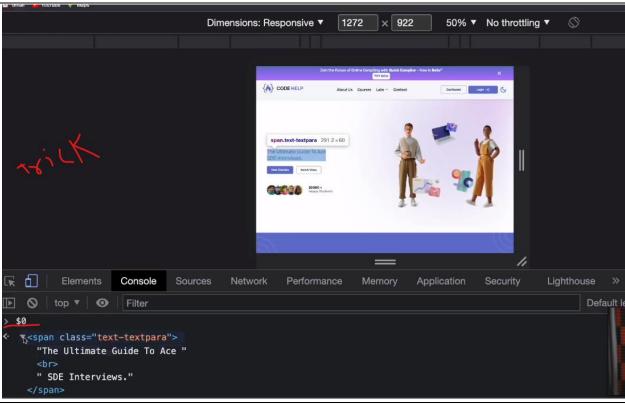
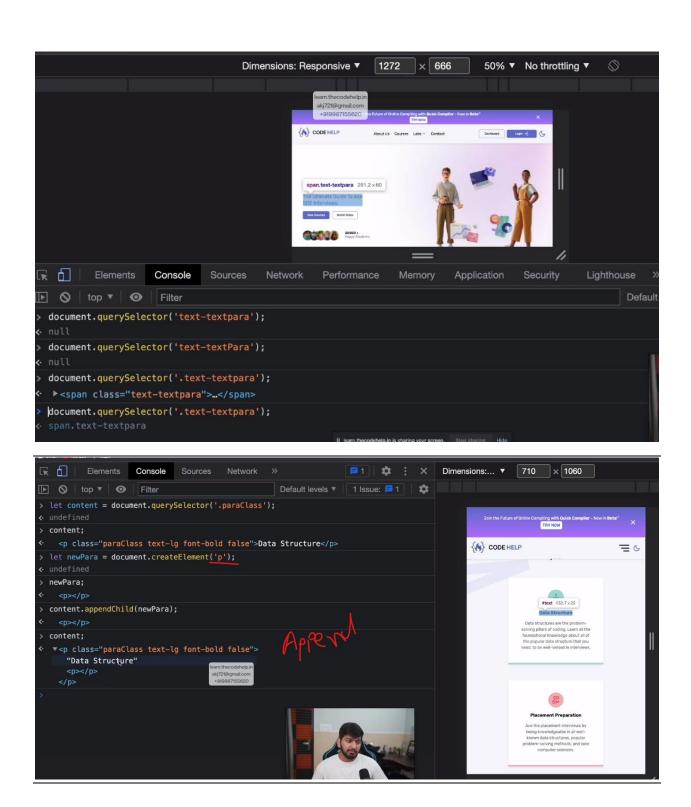
Class - 1

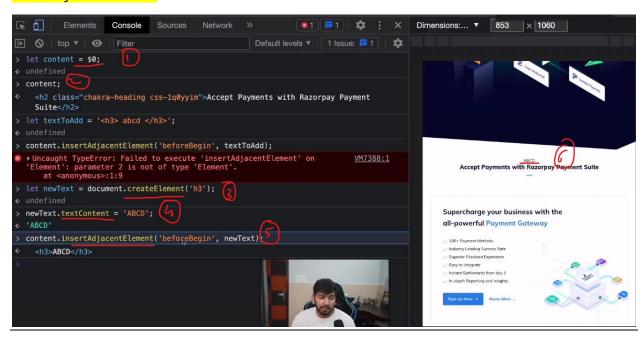
# DOM :Document Object Model



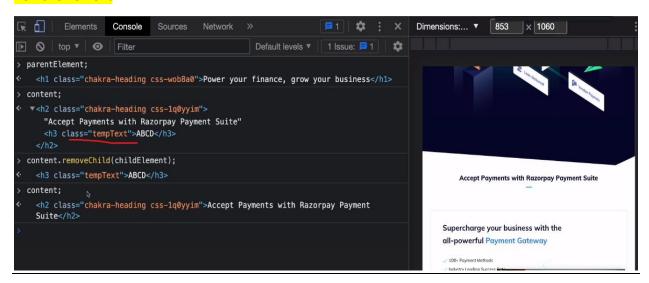




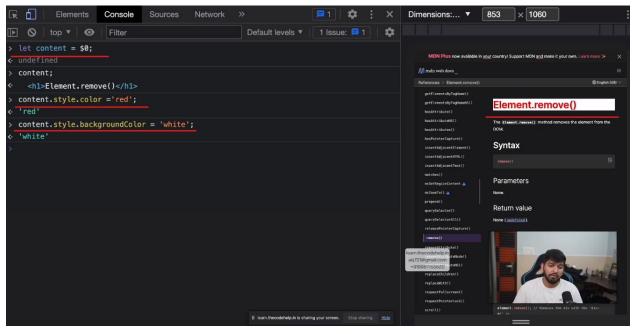
## **insertAdjacentElement**

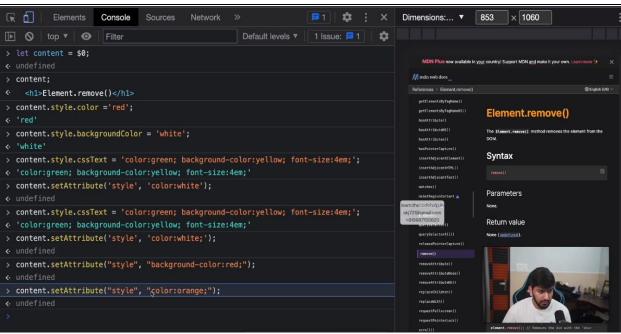


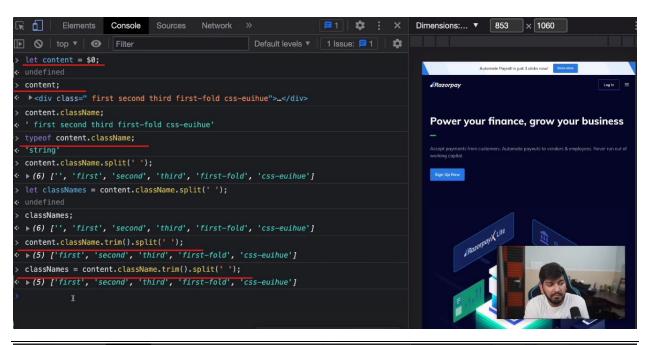
#### RemoveElement

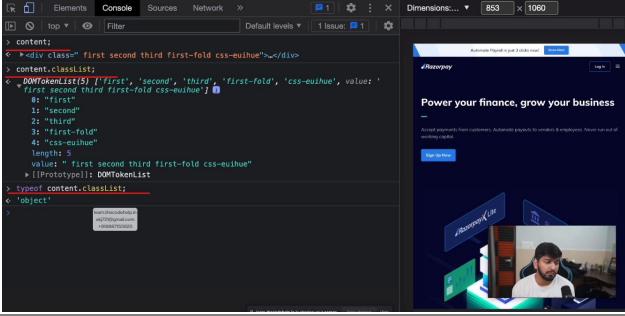


# Css style using JS Dom



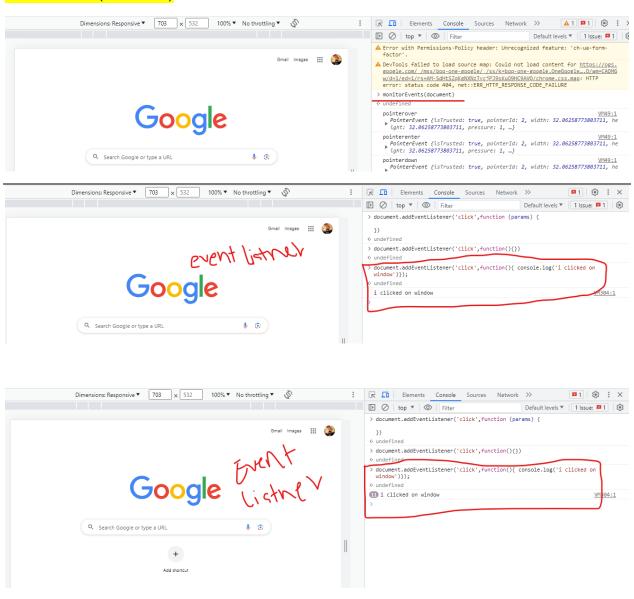


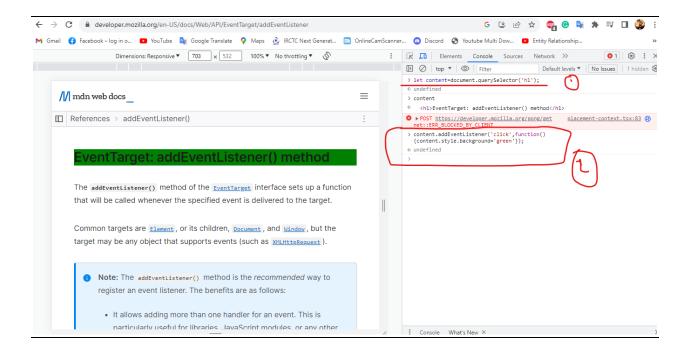




#### Class 2

#### monitorEvents(document)





# **EventListner**:

Index.html

Index.js

```
document.addEventListener('click',function(){
    console.log('I have clicked on documents');
});
```

### Output:



```
function clickEventListner1(){
   console.log('I have clicked on documents ');
}
document.addEventListener('click',clickEventListner1);
```

### output:



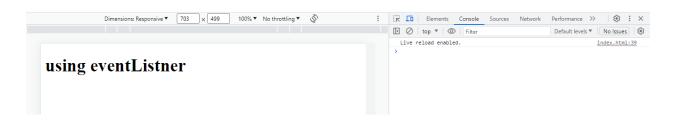
#### RemoveEventListner

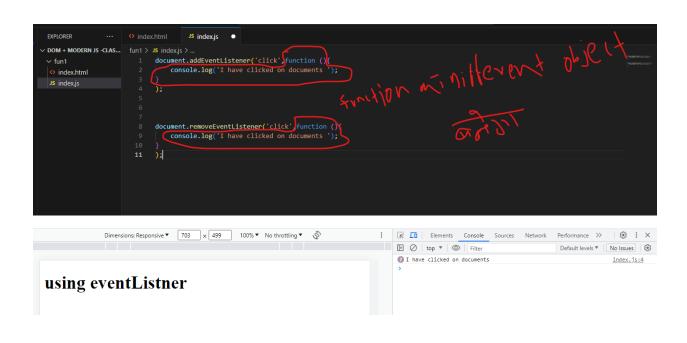
```
function clickEventListner1(){
    console.log('I have clicked on documents ');
}

document.addEventListener('click',clickEventListner1);

//apply remove event listner

document.removeEventListener('click',clickEventListner1);
```





# **EventObject**

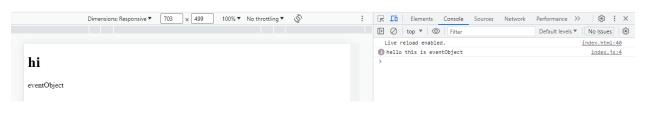
#### Index.html

# Index.js

```
const content=document.querySelector('#p1');

content.addEventListener('click',function(event){
    console.log('hello this is eventObject');
});
```

### Output



# Index.js

```
const content=document.querySelector('#p1');

content.addEventListener('click',function(event){
    console.log(event);
});
```

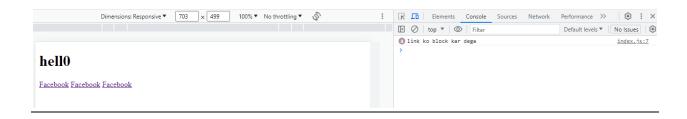
# Output



### **PreventDefault**

#### Index.html

```
let links=document.querySelectorAll('a');
let thirdLink=links[2];
thirdLink.addEventListener('click',function(event){
    event.preventDefault();
    console.log('link ko block kar dega');
});
```



#### Index.html

```
let myDiv=document.createElement('div');

for(let i=1;i<=10;i++){
    let paraElement=document.createElement('p');

    paraElement.textContent='hi trisha'+i;

    paraElement.addEventListener('click',function(event){
        console.log('i have clicked on para');
    });
    myDiv.appendChild(paraElement);
}

document.body.appendChild(myDiv);</pre>
```

```
: Elements Console Sources Network Performance >> 🚯 : X
            Dimensions: Responsive ▼ 703 × 499 100% ▼ No throttling ▼ §
                                                                      Default levels ▼ No Issues 😣
                                                                             Live reload enabled.
                                                                                                index.html:39
                                                                           ⑧ i have clicked on para
Hi
hi trisha1
hi trisha2
hi trisha3
hi trisha5
hi trisha6
hi trisha7
hi trisha8
hi trisha9
hi trisha10
```

# **Event.target.textContent**

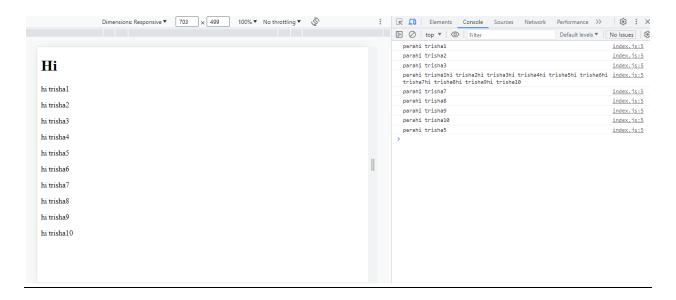
```
let myDiv=document.createElement('div');

function paraStatus(event){
    console.log('para'+event.target.textContent);
}

myDiv.addEventListener('click',paraStatus);

for(let i=1;i<=10;i++){
    let paraElement=document.createElement('p');
    paraElement.textContent='hi trisha'+i;
    myDiv.appendChild(paraElement);
}

document.body.appendChild(myDiv);</pre>
```

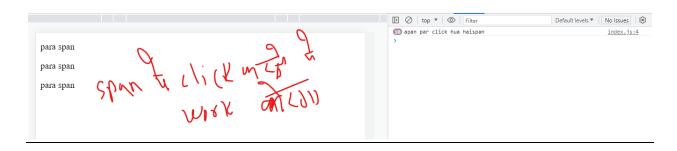


Only select element pe work karega (event.target.nodeName)

### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <article id="wrapper">
       para <span>span</span>
       para <span>span</span>
       para <span>span</span>
   </article>
   <script src="/fun5/index.js"></script>
</body>
</html>
```

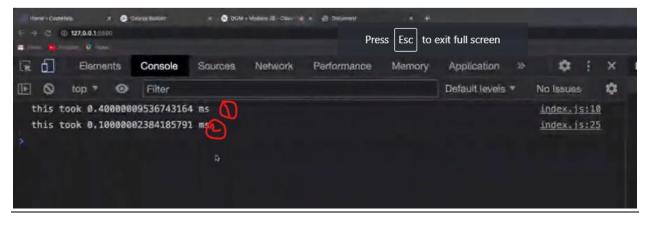
```
let element=document.querySelector('#wrapper');
element.addEventListener('click',function(event){
    if(event.target.nodeName==='SPAN'){
        console.log('apan par click hua hai' +event.target.textContent);
    }
});
```



### DOM + Modern JS -Class 3

#### performance.Now()

```
const t1 = performance.now();
    for(let i=1; i<=100; i++) {
        let newElement = document.createElement('p');
       newElement.textContent = 'This is Para ' + i;
       document.body.appendChild(newElement);
   const t2 = performance.now();
   console.log("this took " + (t2-t1) + " ms");
   //optimising a bit
   const t3 = performance.now();
   let myDiv = document.createElement('div');
   for(let i=1; i<=100; i++) {
       let element = document.createElement('p');
       element.textContent = 'This is Para ' + i;
       myDiv.appendChild(element);
   document.body.appendChild(myDiv);
   const t4 = performance.now(); -
25 console.log("this took " + (t4-t3) + " ms");/
```

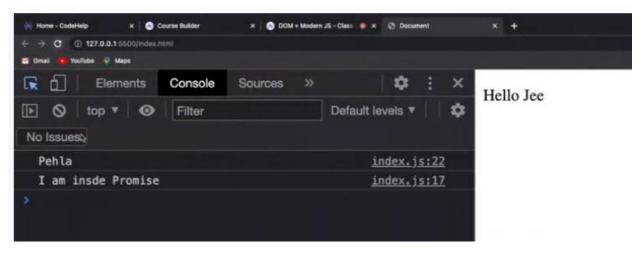


# Document fragment

```
let fragment = document.createDocumentFragment();
for(let i=1; i<=100; i++) {
    let newElement = document.createElement('p');
    newElement.textContent = 'This is Para ' + i;
}
fragment.appendChild(newElement);
}
document.body.appendChild(fragment); // 1 Reflow, 1 Repaint</pre>
```

### DOM + Modern JS -Class 4

#### promise



#### **Promise-resolve**

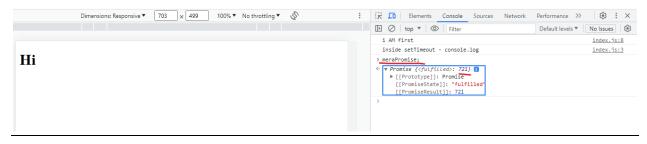
#### Index.html

## Index.js

```
let meraPromise=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - console.log');
    },5000);
    resolve(721);
});

console.log('i AM first');
```

# output



### Promise- reject

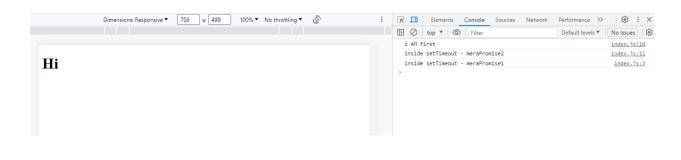
```
let meraPromise=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - console.log');
    },5000);
    //resolve(721);
    reject(new Error('bhai saheb erroe aa gaya'));
});
console.log('i AM first');
```

# Parallelly run promise

```
let meraPromise1=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - meraPromise1');
    },5000);
});

let meraPromise2=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - meraPromise2');
    },3000);
});

console.log('i AM first');
```



### Promise-then()

```
let meraPromise1=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - meraPromise1');
    },5000);
    resolve(123456);
});

meraPromise1.then(function(val){
    console.log(val);
});

console.log('i AM first');
```

```
### UP O | Filter | Default levels ** | No Issues | %5 |

i AM first | index.is:12 |

123456 | index.is:2 |

inside setTimeout - meraPromise1 | index.js:3 |

>
```

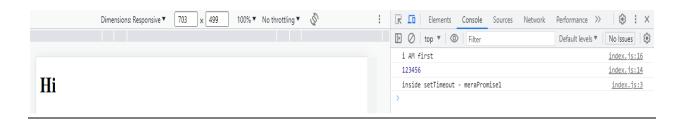
```
let meraPromise1=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - meraPromise1');
    },5000);
    resolve(123456);
});

// meraPromise1.then(function(val){
    // console.log(val);
// });

// make arrow function

meraPromise1.then((val)=>console.log(val) );

console.log('i AM first');
```



### Promise-catch()

console.log('i AM first');

```
let meraPromise1=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - meraPromise1');
    },5000);
    reject(new Error('bhai saheb erroe aa gaya !!'));
});

meraPromise1.catch(function(val){
    console.log('i received error !!!');
});

console.log('i AM first');
```



```
let p=new Promise(function(resolve,reject){
    setTimeout(() => {
        console.log("hi i am setTimeout function ,p")
    }, 5000);
    reject(new Error('bhai saheb erroe aa gaya !!'));
});

p.then(function(val){
    console.log(val);
},function(error){
    console.log('i received error!!')
```

Same Colt

```
let meraPromise1=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - meraPromise1');
    },5000);
    reject(new Error('bhai saheb erroe aa gaya !!'));
});

// meraPromise1.catch(function(val){
    // console.log('i received error !!!');

// });

// make arrow function

meraPromise1.catch((val)=>console.log('i received error !!!') );

console.log('i AM first');
```



### Promise – then() & catch()

```
let meraPromise1=new Promise(function(resolve,reject){
    setTimeout(function(){
        console.log('inside setTimeout - meraPromise1');
    },5000);
    reject(new Error('bhai saheb erroe aa gaya !!'));
});

meraPromise1.then((val)=> {console.log(val)},(error)=>{console.log('i received error !!!')});

console.log('i AM first');
```

```
i AM first index.js:10
i received error !!!
inside setTimeout - meraPromisel index.js:3

> |
```

## Promise program code

```
let waada1=new Promise(function(resolve, reject){
    setTimeout(()=>{
        console.log('setTimeout1-waada1');
    },2000);
    resolve(true);
});
let output=waada1.then(function(){
    let waada2=new Promise(function(resolve, reject){
        setTimeout(()=>{
            console.log('setTimeout2-waada2');
        },3000);
        resolve('waada2 resolved');
    });
    return waada2;
});
output.then((value)=>console.log(value));
```



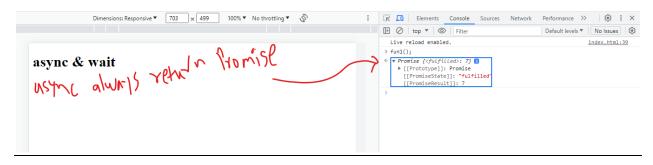
# Async & awit

#### Index.html

# Index.js

```
async function fun1(){
   return 7;
}
```

### Output



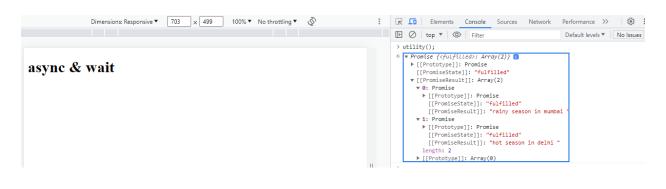
# Program 2)

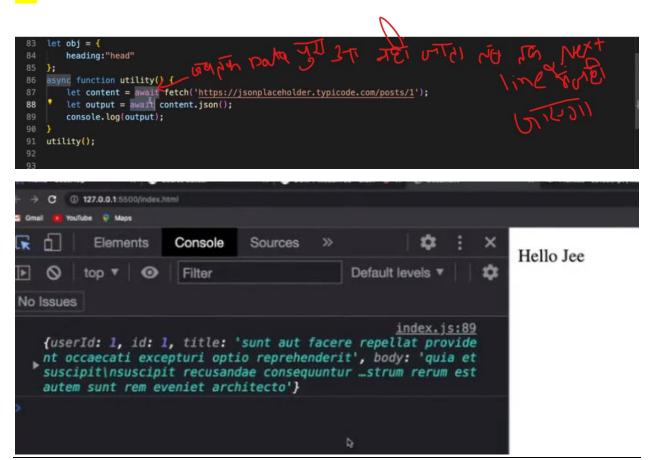
```
async function utility(){

let mumbaiMausam=new Promise((resolve,reject)=>{
    setTimeout(()=>{
        resolve('rainy season in mumbai ');
    },5000);
});

let delhiMausam=new Promise((resolve,reject)=>{
    setTimeout(()=>{
        resolve('hot season in delhi ');
    },6000);
});

let mm=mumbaiMausam;
let dm=delhiMausam;
return [mm,dm];
}
```





### Program with Fake API

```
async function helper() {
        let options = {
           method: 'POST',
           body: JSON.stringify({
             title: 'foo',
             body: 'bar',
             userId: 1,
100
            3),
101
102
           headers: {
             'Content-type': 'application/json; charset=UTF-8',
104
105
        };
106
        let content = await fetch('https://jsonplaceholder.typicode.com/posts', options);
108
        let response = content.json();
109
        return response;
110
111
112
113 async function utility() {
114
           let ans = helper();
115
           console.log(ans);
116
117
118
      utility();
← → C ① 127.0.0.1 5500/index.html
           Elements
                               Sources
                     Console
                                                                  Hello Jee
                                             Default levels ▼
Filter
 No Issues
                                                  index.js:115
```

>{title: 'foo', body: 'bar', userId: 1, id: 101}