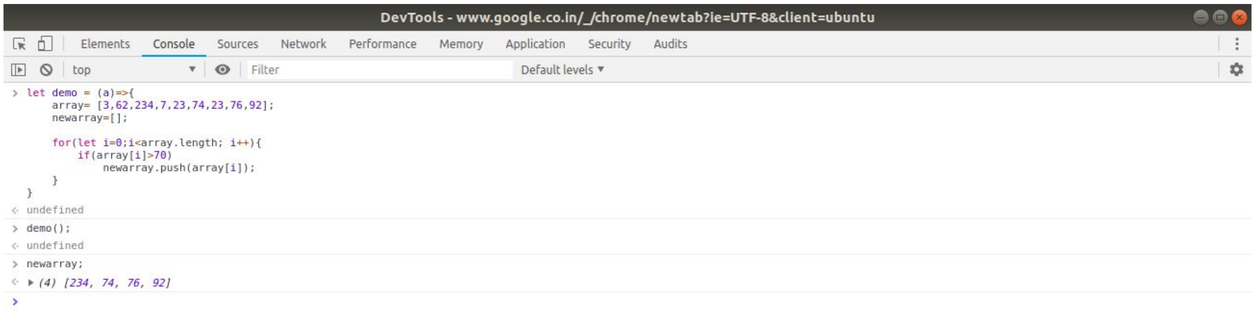
# ES6 ( Session-1 )

Q1. Given this array: `[3,62,234,7,23,74,23,76,92]`, Using arrow function, create an array of the numbers greater than `70`.

Ans:

```
let demo = (a)=>{
   array= [3,62,234,7,23,74,23,76,92];
        newarray=[];

   for(let i=0;i<array.length; i++){
      if(array[i]>70)
          newarray.push(array[i]);
   }
}
demo();
console.log(newarray); // [234, 74, 76, 92]
```



```
> let demo = (a)=>{
      array= [3,62,234,7,23,74,23,76,92];
      newarray=[];

      for(let i=0;i<array.length; i++){
          if(array[i]>70)
              newarray.push(array[i]);
      }
  }
< undefined
> demo();
< undefined
> newarray;
< ▶ (4) [234, 74, 76, 92]
>
```

Q2.

```
<ul>
    <li data-time="5:17">Flexbox Video</li>
    <li data-time="8:22">Flexbox Video</li>
    <li data-time="3:34">Redux Video</li>
    <li data-time="5:23">Flexbox Video</li>
    <li data-time="7:12">Flexbox Video</li>
    <li data-time="7:24">Redux Video</li>
    <li data-time="6:46">Flexbox Video</li>
    <li data-time="4:45">Flexbox Video</li>
    <li data-time="4:40">Flexbox Video</li>
    <li data-time="7:58">Redux Video</li>
    <li data-time="11:51">Flexbox Video</li>
    <li data-time="9:13">Flexbox Video</li>
    <li data-time="5:50">Flexbox Video</li>
    <li data-time="5:52">Redux Video</li>
    <li data-time="5:49">Flexbox Video</li>
    <li data-time="8:57">Flexbox Video</li>
    <li data-time="11:29">Flexbox Video</li>
    <li data-time="3:07">Flexbox Video</li>
    <li data-time="5:59">Redux Video</li>
    <li data-time="3:31">Flexbox Video</li>
    </ul>
```

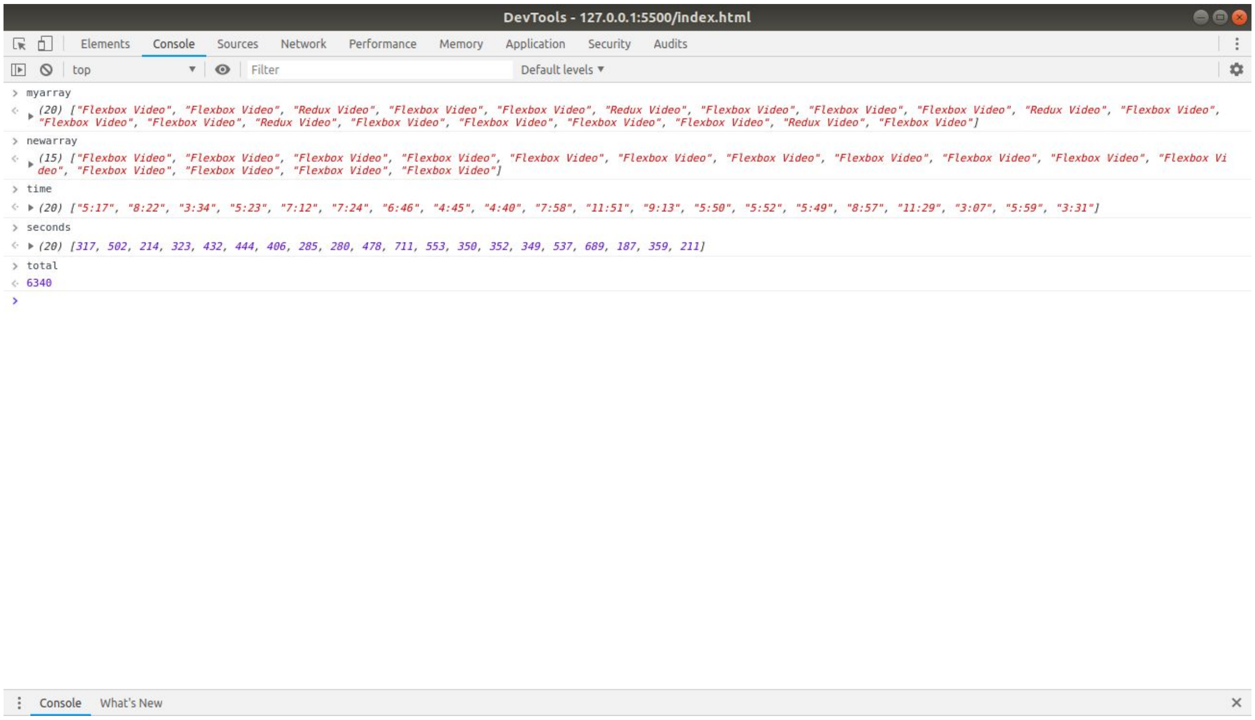
1. Select all the list items on the page and convert to array.
2. Filter for only the elements that contain the word 'flexbox'
3. map down to a list of time strings
4. map to an array of seconds
5. reduce to get total using .filter and .map

Ans:

```
<!DOCTYPE html>
<html>
 <head>
   <meta charset="utf-8" />
   <title>Exercise</title>

 </head>
 <body>

<ul id="mylist">
   <li data-time="5:17">Flexbox Video</li>

   <li data-time="8:22">Flexbox Video</li>

   <li data-time="3:34">Redux Video</li>

   <li data-time="5:23">Flexbox Video</li>

   <li data-time="7:12">Flexbox Video</li>

   <li data-time="7:24">Redux Video</li>

   <li data-time="6:46">Flexbox Video</li>

   <li data-time="4:45">Flexbox Video</li>

   <li data-time="4:40">Flexbox Video</li>

   <li data-time="7:58">Redux Video</li>

   <li data-time="11:51">Flexbox Video</li>

   <li data-time="9:13">Flexbox Video</li>

   <li data-time="5:50">Flexbox Video</li>
```

```
<li data-time="5:52">Redux Video</li>

<li data-time="5:49">Flexbox Video</li>

<li data-time="8:57">Flexbox Video</li>

<li data-time="11:29">Flexbox Video</li>

<li data-time="3:07">Flexbox Video</li>

<li data-time="5:59">Redux Video</li>

<li data-time="3:31">Flexbox Video</li>

</ul>

<script>
    let ul=document.getElementById("mylist");

    let myarray= [];
    for(let i=0; i< ul.children.length;i++){
       const li = ul.children[i];
        myarray.push(li.textContent);
    }

    console.log(myarray); //Ques 2(i)
    let newarray=[];
    newarray= myarray.filter(word => word.includes('Flexbox'));
    // newarray=myarray.filter(word => word=='Flexbox Video');
    console.log(newarray);   // Ques 2(ii)

    let time=[];
    for(let i=0; i< ul.children.length;i++){
       const a = ul.children[i];
      time.push(a.dataset.time);
```

```
        }
        console.log(time); // Ques2(iii)

        let seconds=[];
        for(let i=0;i<time.length;i++){
          let temp= time[i].split(":");
          seconds[i]=parseInt(temp[0])*60+parseInt(temp[1]);
        }
        console.log(seconds); // Ques2(iv)

        let total = seconds.reduce(function (total) {
          for(let i=0;i<seconds.length;i++)
          return total + seconds[i];
          }, 0);
        console.log(total); // Ques2(v)
    </script>

  </body>

</html>
```



```
> myarray
< ▶(20) ["Flexbox Video", "Flexbox Video", "Redux Video", "Flexbox Video", "Flexbox Video", "Redux Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Redux Video", "Flexbox Video",
   "Flexbox Video", "Flexbox Video", "Redux Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Redux Video", "Flexbox Video"]
> newarray
< ▶(15) ["Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Vi
   deo", "Flexbox Video", "Flexbox Video", "Flexbox Video", "Flexbox Video"]
> time
< ▶(20) ["5:17", "8:22", "3:34", "5:23", "7:12", "7:24", "6:46", "4:45", "4:40", "7:58", "11:51", "9:13", "5:50", "5:52", "5:49", "8:57", "11:29", "3:07", "5:59", "3:31"]
> seconds
< ▶(20) [317, 502, 214, 323, 432, 444, 406, 285, 280, 478, 711, 553, 350, 352, 349, 537, 689, 187, 359, 211]
> total
< 6340
>
```

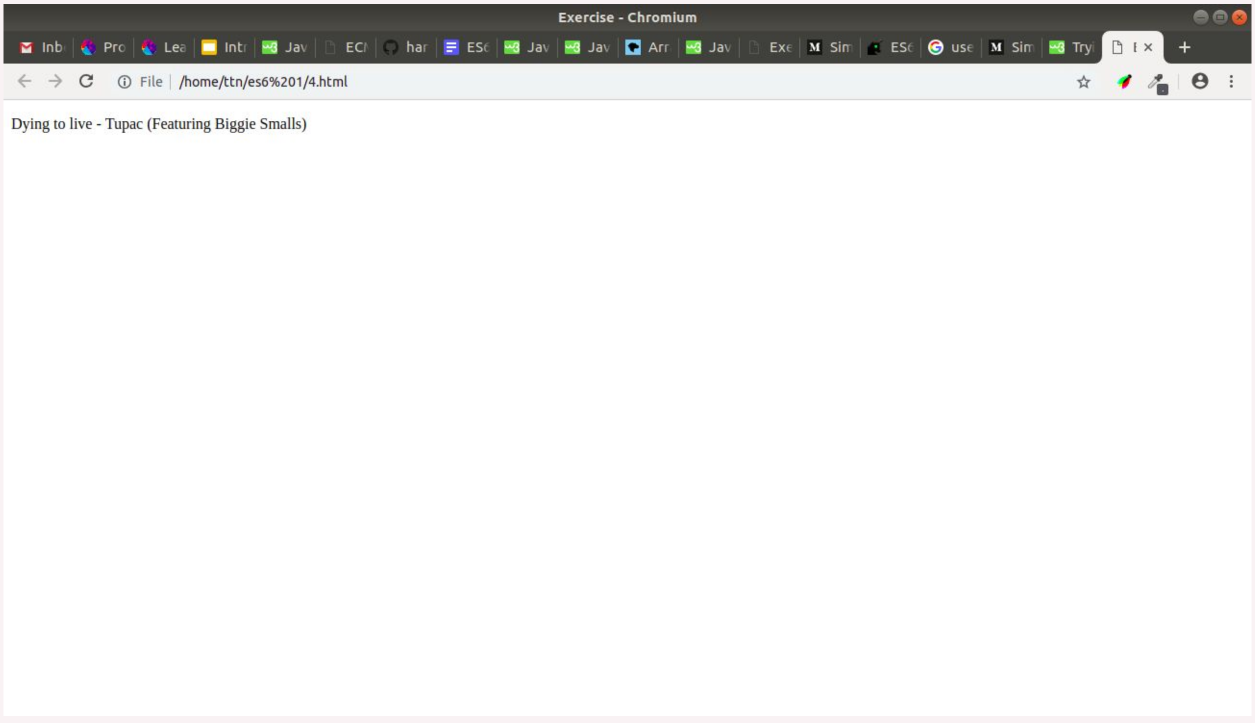
### 3. Create a markup template using string literal

```
const song = {
 name: 'Dying to live',
 artist: 'Tupac',
 featuring: 'Biggie Smalls'
};
```

Result:

```
"<div class="song">
   <p>
     Dying to live — Tupac
     (Featuring Biggie Smalls)
   </p>
 </div>
‶
```

```
Ans:
<!DOCTYPE html>
<html>
 <head>
   <meta charset="utf-8" />
   <title>Exercise</title>

 </head>
 <body>
      <div id="result">
      </div>

   <script>
       const song = {
           name: 'Dying to live',
           artist: 'Tupac',
           featuring: 'Biggie Smalls'
       };
       let temp=`<div class="song" >
                   <p>
                   ${song.name} - ${song.artist}
                   (Featuring ${song.featuring})
                   <p>
               <div>`;
    document.getElementById("result").innerHTML=temp;

   </script>

 </body>

</html>
```



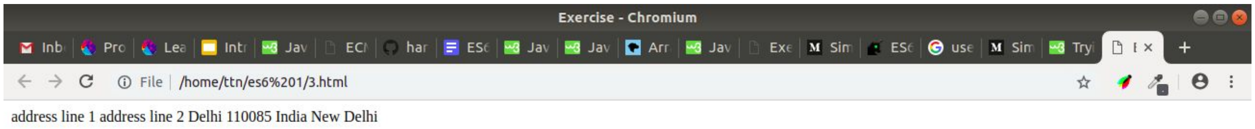
Dying to live - Tupac (Featuring Biggie Smalls)

4. Extract all keys inside address object from user object using destructuring ?

```
const user = {

firstName: ‘Sahil’,

lastName: ‘Dua’,

Address: {

Line1: ‘address line 1’,

Line2: ‘address line 2’,

State: ‘Delhi’,

Pin: 110085,
Country: ‘India’,

City: ‘New Delhi’,

},

phoneNo: 9999999999

}
```

Ans:

```
<!DOCTYPE html>
<html>
 <head>
   <meta charset="utf-8" />
   <title>Exercise</title>

 </head>
 <body>
  <div id="result">

  </div>
   <script>

const user = {

firstName:'Sahil',
lastName:'Dua',
Address:{
Line1: 'address line 1',
Line2: 'address line 2',
State: 'Delhi',
Pin: 110085,
Country: 'India',
City: 'New Delhi',
},
phoneNo: 9999999999
}

let {Line1, Line2, State, Pin, Country,City} = user.Address;

document.getElementById("result").innerHTML=Line1 +" "+Line2 +" "+ State+" " + Pin+" " +Country+" " + City;



   </script>

 </body>

</html>
```



```
address line 1 address line 2 Delhi 110085 India New Delhi
```