Document object model(DOM)

```
DOM Manipulation
const title =document.getElementById('main heading')
console.log(title)
const listitems = document.getElementsByClassName('list-items')
console.log(listitems)
const listItems = document.getElementsByTagName('li')
console.log(listItems)
const ul = document.querySelector('ul');
const newLi = document.createElement('li');
const newsport = document.createElement('li');
newsport.innerText = 'rugby';
newsport.setAttribute('class','rugby');
sports.appendChild(newsport);
ul.append(newLi);
```

```
const firstlistitem = document.querySelector('.list-items');
console.log(firstlistitem.innerText); // used in most cases
console.log(firstlistitem.textContent);
console.log(firstlistitem.innerHTML);
newLi.innerText ='X-men'
newLi.setAttribute('id','main heading')
newLi.removeAttribute('id')
newLi.remove()
const button = document.querySelector('.btn');
function alrtBtn() {
button.addEventListener('click',alrtBtn);
function changeClr() {
  button.style.backgroundColor = 'yellow';
```

```
if (button.style.backgroundColor == 'yellow') {
  button.style.backgroundColor = blue;
}
  else{
  button.addEventListener('mouseover',changeClr);
}
console.log();
```

EVENT DELEGATION

```
that adds it to all of its present AND future descendants that match a
selector.
document.querySelector('.football').addEventListener('click',function(e){
```

```
document.querySelector('#sports').addEventListener('click', function(e) {
    console.log(e.target.getAttribute('class')+ ' is clicked');

    if(e.target.matches('li')) {
        e.target.style.backgroundColor ='lightgrey';
    }
})
```

Transitions on click

```
let cont = document.getElementsByClassName('main-content');
console.log(cont);
for(i=0; i<cont.length; i++){</pre>
   cont[i].addEventListener('click', function(){
       this.classList.toggle('active');
  height: 100px;
  transition: 0.5s;
   font-size: 18px;
   transition: 0.5s;
  font-size: 30px;
  transition: 0.5s;
```