```javascript
function getElementsByCLassNameCustom(body, className) {
    const output = [];

    function recurse(el) {
        if(el == null) return; // base case
        if(el.classList.contains(className)) {
            output.push(el);
        }
        for(const child of el.children) {
            recurse(child);
        }
    }

    // we need to call recurse on all the children of body

    for(const bodyChild of body.children) {
        recurse(bodyChild);
    }

    return output;

}
```

Homework

1. Write polyfills for `getElementById`, `getElementsByClassName`, `getElementsByTagName`, `map`, `filter`
2. https://fakestoreapi.com/docs , https://github.com/public-apis/public-apis - Make a frontend project
3.

https://fakestoreapi.com/docs , https://fakestoreapi.com/docs Make frontend project

react -HTML parser:

Inside your text any HTML coming up it will parse that HTML

```
we have install that package
```

```
npm i react-html-parser
```

After install it and then import it

```
import parse from 'html-react-parser';
```

then just parse it where you want

```
{parse(coin?.description?.en)}
```

why we parse it because in description there is html tags is there it is looking very ugly that's why we did this one

Lazy loading :

In crypto project when we render into home page it automatically downlading the page Details also so me make some dely for this dely we are using `Lazy loading.`

While loading react don't know what to show on UI that's why we are using `suspense` here inside suspense what we write it will show in UI while downloading the CoinDetails page.

`This will handle the UI while loading time`

```
        <Route index element={

    //   <Suspense fallback={<div>Loading home..</div>}> this one and
 below pageloader both are same UI is different

    <Suspense fallback={<PageLoader />}>

        <Home />

        </Suspense>

        }/>
```

SWR :

until the page being load what will show on UI

while loading if you want to show some shadow example in face book while loading it is showing ui like that use `react-content-loader` package
in goggle there is so many types of UI are available

```
npm i react-content-loader
```

If error came below one will handle :

search => react-error-boundary package

Children prop means when one component take another component as a prop

React-chartjs2:

It will provide different types of chats

```
npm i react-chartjs-2
npm install chart.js // for registering those charts
```