

## Asynchronous Programming

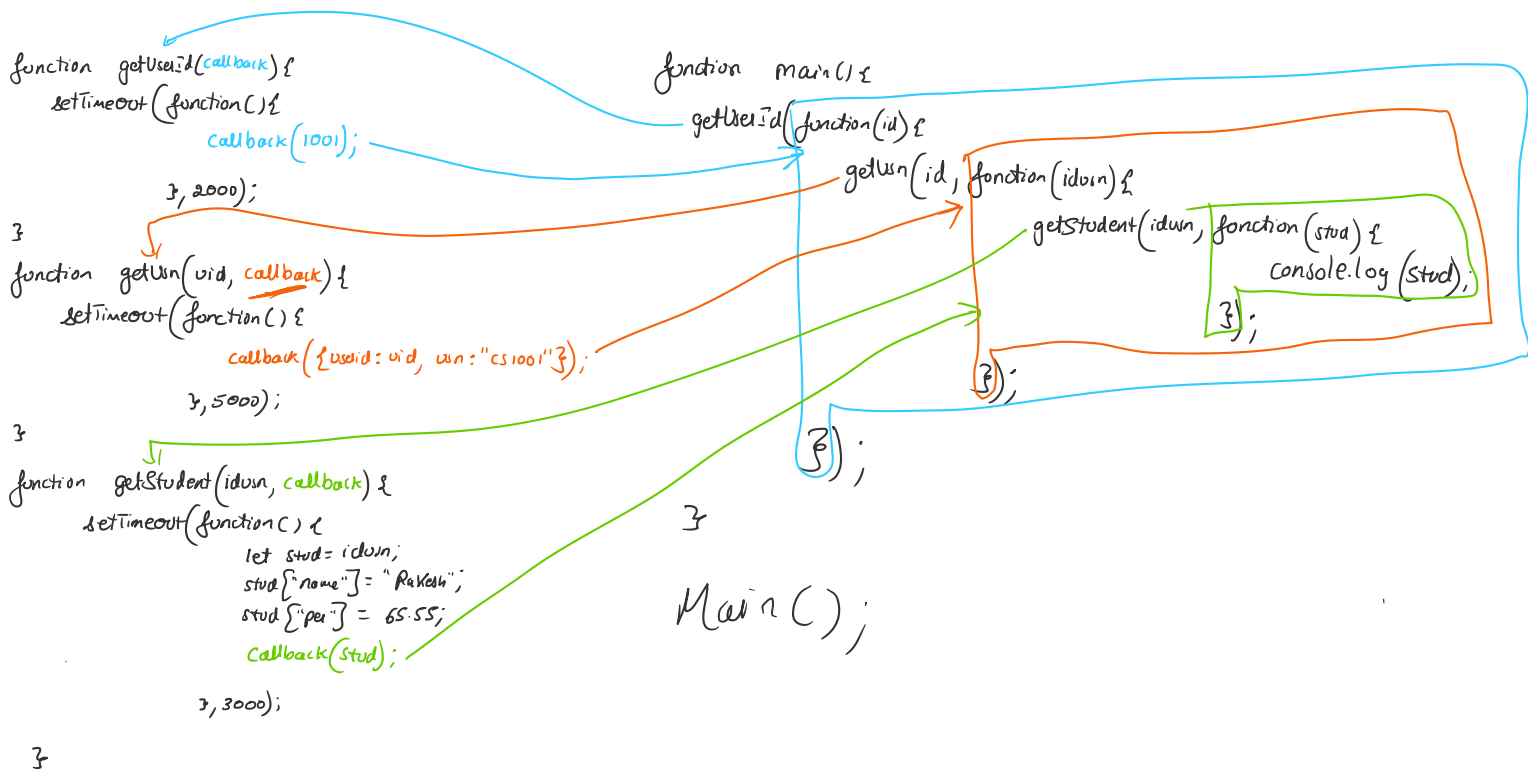
```
setTimeout(function() {  
    //  
})
```

```
setTimeout(function() {  
    //, millsec
```

```
function display(msg) {  
    s.o.p("Start of display method");  
    setTimeout(function() {  
        console.log(msg);  
        // 3,5000;  
    }, 3000);  
    s.o.p("End of display method");  
}
```

```
display("Hello world");  
console.log("End of main");
```

Start of display method  
End of display method  
End of main  
Hello world



```

Promise
function getMessage(callback) {
  setTimeout(() => {
    callback("Hello world");
  }, 5000);
}

function Main() {
  getMessage(msg) => {
    console.log(msg);
  };
}

Main();

```

```

Promise(resolve, reject)
function getMessage() {
  let p = new Promise((resolve, reject) => {
    setTimeout(() => {
      resolve("Hello world");
    }, 5000);
  });

  return(p);
}

function Main() {
  let p = getMessage();
  p.then(msg => console.log(msg));
}

Main();

```

```

function evenodd(N) {
  let promise = new Promise((resolve, reject) => {
    setTimeout(() => {
      if (N % 2 == 0)
        resolve();
      else
        reject();
    });
  });

  return promise;
}

```

```

}

```

```

function Main() {

```

```

  let p = evenodd(8);

```

```

  p.then(() => console.log("No is even"));

```

```

  .catch(() => console.log("No is odd"));

```

