

Practical No 4

Aim : Write A Program To Demonstrate The Node.js In Event Loop.

Timeout

```
console.log("First")
setTimeout(() => {
  console.log("Middle:After 1s")
}, 1000)
console.log("Last")
```

```
PS C:\MyWork\cs-sem-4> node "c:\MyWork\cs-sem-4\server-code\bakwas\timeout.js"
First
Last
Middle:After 1s
```

Interval

```
let count = 0;
setInterval(() => {
  console.log(`Interval:Count ${count++}`);
}, 1000);
```

```
PS C:\MyWork\cs-sem-4> node "c:\MyWork\cs-sem-4\server-code\bakwas\interval.js"
Interval:Count 0
Interval:Count 1
Interval:Count 2
Interval:Count 3
```

Immediate

```
console.log("First");
setImmediate(() => {
  console.log(`Immediate:Middle`);
});
console.log("Last");
```

```
PS C:\MyWork\cs-sem-4> node "c:\MyWork\cs-sem-4\server-code\bakwas\immediate.js"
First
Last
Immediate:Middle
```

Process Next Tick

```
console.log("First");
process.nextTick(() => {
  console.log(`NextTick:Middle`);
});
console.log("Last");
```

```
PS C:\MyWork\cs-sem-4> node "c:\MyWork\cs-sem-4\server-code\bakwas\nextTick.js"
First
Last
NextTick:Middle
```

Async – Await

```
async function name(params) {
  console.log(params);
}
```

```
await name("Hello");
```

```
PS C:\MyWork\cs-sem-4> node "c:\MyWork\cs-sem-4\server-code\bakwas\asyncAwait.js"
Hello
```