



PARSHVANATH CHARITABLE TRUST'S  
**A. P. SHAH INSTITUTE OF TECHNOLOGY**

**Department of Information Technology**

**(NBA Accredited)**



## Department of Information Technology

**Academic Year: 2025-26**

**Semester: V**

**Class / Branch: TEIT/Div C**

**Subject: IP Lab**

**Name of Instructor: Prof. Roshna Sangle**

**Name of Student: Omkar R Salunkhe**

**Student ID: 22104067**

**Date of Performance: 12/09/25**

**Date of Submission: 12/09/25**

### Experiment No. 7

Aim: Write a program to implement ES6 Iterator & Promises

Promise Code:

```
let a = 10;

let pr = new Promise((resolve, reject) => {
  if (a > 0) {
    console.log("It is a positive number!");
    resolve("This is a success case");
  } else if (a == 0) {
    resolve("Number is zero");
  } else {
    console.log("It is a negative number!");
    reject("This is a failure case ");
  }
});

pr.then((message) => {
  console.log(message);
}).catch((message) => {
  console.log(message);
});
```

Promise Output:

```
[Running] node "/home/apsit/Documents/Omkar_15/exp4/tempCodeRunnerFile.js"
It is a positive number!
This is a success case

[Done] exited with code=0 in 0.384 seconds

[Running] node "/home/apsit/Documents/Omkar_15/exp4/promise.js"
Number is zero

[Done] exited with code=0 in 0.376 seconds

[Running] node "/home/apsit/Documents/Omkar_15/exp4/promise.js"
It is a negative number!
This is a failure case

[Done] exited with code=0 in 0.431 seconds
```

Iterator Code:

```
function fibonacci() {

  let a = 0;
  let b = 1;
  sum = 1;
  console.log(a);
  while (sum < 100) {
    console.log(b);
    let next = a + b;
    a = b;
    b = next;
    sum += b;
  }
  fibonacci();
}
```

Iterator output:

```
34
[Done] exited with code=0 in 0.374 seconds
[Running] node "/home/apsit/Documents/Omkar_15/exp4/fibo.js"
0
1
1
2
3
5
8
13
21
34
[Done] exited with code=0 in 0.363 seconds
```

Conclusion: In this experiment we have implemented a program to implement ES6 Iterator & Promises.