



PARSHVANATH CHARITABLE TRUST'S

A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)



Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT C
Subject: IP Lab

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Date of Submission:12/09/2025

Experiment No: 7

Aim: Write a program to implement ES6 Iterator & Promises

Software Used: Visual Studio Code

Code & Output:

Promise.js

```
let a=prompt("Enter a number:");

let pr=new Promise((resolve, reject) => {
  if (a>0) {
    resolve("Success Positive!");
  }else{
    reject("Failed Negative!");
  }
})

pr.then((message)=>{
  console.log("This is then block:"+message);
}).catch((message)=>{
  console.log("This is catch block:"+message);
})
```



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Output:

```
Enter a number:10  
This is then block:Success Positive!
```

Iterator.js

```
function fibonacciIterator(max) {  
  let a=0, b=1;  
  return {  
    next() {  
      if (a > max) {  
        return { done: true };  
      }  
      let current = a;  
      [a,b] = [b, a+b];  
      return { value: current, done: false };  
    },  
    [Symbol.iterator]() {  
      return this;  
    }  
  };  
}
```

```
const fib = fibonacciIterator(100);  
for (const num of fib) {  
  console.log(num);  
}
```



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Output:

```
[Running] node "/home/apsit/Downloads/Suyash/Experiment No.7/Iterator.js"
0
1
1
2
3
5
8
13
21
34
55
89
```

Conclusion:

In this experiment, we learnt and understood a program to implement ES6 Iterator & Promises.