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Subject: IP Lab	**Date of Submission: 19-09-2024**

Experiment No: 7

Aim: Write a program to implement ES6 Iterator & Promises.

Software Used: VS Code.

Code & Output:

1. **Code (Iterators) :**

```
let iterator = {

  [Symbol.iterator]() {

  let i = 0;

  return {

  next()

  {

    if (i < 100)

    {

      let value = i;

      i += 10; // Increment `i` before returning the value

      return { value: value, done: false };

    }
```

.

```
        else

        {

            return { done: true };

        }

      }

    };

  }

};

for (let value of iterator)

{

  console.log(value);

}
```

Output :

```
[Running] node "d:\Ap shah\IP Lab\exp7.js"
0
10
20
30
40
50
60
70
80
90
```

.

2. Code (Promises) :

```
function getnumber(num) {

    return  new Promise((res, rej) =>

    {

        if ( num > 0) {

            console.log("resolving the promise...");

            res("Number is positive");

        }

        rej(new Error("No resolve..."));

    });

}

getnumber(10)

.then((res) => {

    console.log(res);

})

.catch((err) => {

    console.log(err);

});
```

Output :

```
[Running] node "d:\Ap shah\IP Lab\exp7(promises).js"
resolving the promise...
Number is positive

[Done] exited with code=0 in 0.082 seconds
```

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Conclusion:

Thus, in this experiment we successfully learnt about the use of iterator and promises and implemented a program for the same . Also, we learnt about how to handle exceptions and rejections in promises.