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Subject: IP Lab	**Date of Submission: 12/08/2024**

Experiment No.5

Aim: Write a program to implement ES6 functions.

Software Used: VS Code

Code & Output:

1. Addition of numbers using rest function :

```
function add(...args) {

   let sum = 0;

   for (let i of args) {

      sum+= i;

   }

   return sum;

 }

 console.log(add(0, 1, 2));
```

.

2. fibonacci series using arrow function :

```javascript
let fibonacci=(num) => {
    let a=0, b=1;
    console.log(a);
    console.log(b);
    for(let i=0; i<num; i++) {
        let c=a+b;
        console.log(c);
        a=b;
        b=c;
    }
}
fibonacci(10)
```

```
apsit@apsit-HP-ProDesk-400-G7-Microtower-PC:~/Vijay$ node "/home/apsit/Vijay/exp5_2.js"
0
1
1
2
3
5
8
13
21
34
55
89
```

.

3. even-odd number using anonymous function :

```javascript
let evenodd = function (num) {
  if(num%2 == 0) {
    console.log(num,"is even");
  }
  else {
    console.log(num,"is odd");
  }
};

evenodd(25);
```

```
apsit@apsit-HP-ProDesk-400-G7-Microtower-PC:~/Vijay$ node "/home/apsit/Vijay/exp5_3.js"
 20 is even
apsit@apsit-HP-ProDesk-400-G7-Microtower-PC:~/Vijay$ node "/home/apsit/Vijay/exp5_3.js"
 25 is odd
apsit@apsit-HP-ProDesk-400-G7-Microtower-PC:~/Vijay$
```

Conclusion:

Thus, in this experiment we successfully learned about the terminologies related to ES6 which stands for ECMA Script and successfully implemented various program related to ES6 functions such as normal function, arrow function, anonymous function.