



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

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Date of Performance: 12/09/25

Date of Submission: 12/09/25

Experiment No. 05

Aim: Write a program to implement ES6 functions.

Code1:

```
let leapYear = function(year = 2025) {  
    return (year % 4 === 0);  
};  
let year = 2025;  
if (leapYear(year)) {  
    console.log(year + " is a leap year.");  
} else {  
    console.log(year + " is not a leap year.");  
}
```

Output1:

```
[Running] node "/home/apsit/Documents/Omkar_15/exp4/fun.js"
2025 is not a leap year.

[Done] exited with code=0 in 0.378 seconds

[Running] node "/home/apsit/Documents/Omkar_15/exp4/fun.js"
2024 is a leap year.
```

Code 2:

```
function prime(num = 7) {
  if (num <= 1) return false;
  for (let i = 2; i <= Math.sqrt(num); i++) {
    if (num % i == 0) return false;
  }
  return true;
}

let number = 7;
if (prime(number)) {
  console.log(number + " is a prime number.");
} else {
  console.log(number + " is not a prime number.");
}
```

Output 2:

```
[Running] node "/home/apsit/Documents/Omkar_15/exp4/prime.js"
7 is a prime number.

[Done] exited with code=0 in 0.38 seconds

[Running] node "/home/apsit/Documents/Omkar_15/exp4/prime.js"
6 is not a prime number.
```

Code 3:

```
const sum = (...numbers) => {  
  let total=0;  
  for (let number of numbers){  
    total += number;  
  }  
  return total;  
};  
console.log(sum(1, 2, 3, 4, 5));
```

Output 3:

```
[Running] node "/home/apsit/Documents/Omkar_15/exp4/sum.js"  
15  
[Done] exited with code=0 in 0.385 seconds
```

Conclusion: In this experiment we have studied and implemented arrow functions in ES6.