# Raj Kumar Goel Institute Of Technology, Ghaziabad

## EXPERIMENT 07

Aim : Build a command-line utility using Node.js that performs a specific task, such as converting text to uppercase, calculating the factorial of a number, or generating random passwords.

**Step1. Create file TextToUppercase.js**

```javascript
const readline = require('readline');

const rl = readline.createInterface({
    input: process.stdin,
    output: process.stdout
});

rl.question("Enter text to convert to uppercase: ", (input)=> {
    console.log("Uppercase: ",input.toUppercase());
    rl.close();
});
```

**Step 2. Create file FactorialCalulating.js**

```javascript
const readline = require('readline');


const rl = readline.createInterface({
    input: process.stdin,
    output: process.stdout
});

function factorial(n) {
    if (n === 0
|| n === 1) {
        return 1;
    } else {
        return n * factorial(n - 1);
    }
```
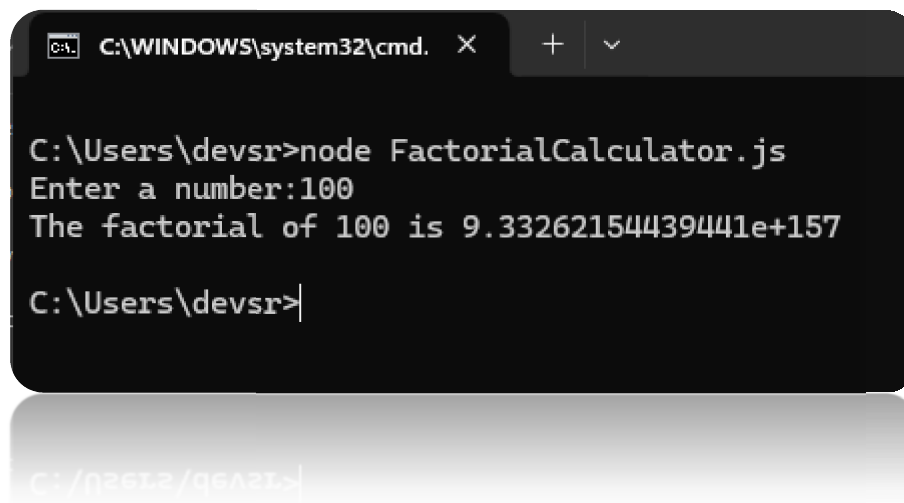
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```
}

rl.question('Enter a number:', (number) => {
    console.log(`The factorial of ${number} is ${factorial(number)}`);
    rl.close();
});
```

**Output:**



## Step 3. Create a file PasswordGenerator.js

```
const crypto = require('crypto');

function generatePassword(length) {
    const charset =
'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789!@#$%^&*()_-=';
    let password = '';
    for (let i = 0; i < length; i++) {
        password += charset[crypto.randomInt(0,
charset.length)];
    }
    return password;
}
```

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```javascript
const readline = require('readline');

const rl = readline.createInterface({
    input: process.stdin,
    output: process.stdout
});

rl.question('Enter the desired password length:',
(Length) => {
    console.log(generatePassword(length));
    rl.close();
});
```

Output:

```
C:\Users\devsr>node PasswordGenerator.js
Enter the desired password length:14
&3U2P=Yltt(a8v

C:\Users\devsr>node PasswordGenerator.js
Enter the desired password length:6
ZL0xjR
```