

```
let http = require('http');
let primeFn = require('./isprime');

let nodemailer = require('nodemailer');

let transporter = nodemailer.createTransport({
  host: 'smtp.ethereal.email',
  port: 587,
  auth: {
    user: 'zora.johnston56@ethereal.email',
    pass: 'KCspTy3vBpMREqGHev'
  }
});

let mailOptions = {
  from: 'zora.johnston56@ethereal.email',
  to: 'info@ethereal.email',
  subject: 'this is a mail to test a mailing feature',
  text: '<h1>hello this is a sample mail</h1> <p>this is a paragraph</p>'
};

function sendMailNow(){
  transporter.sendMail(mailOptions,function(err,info){
    if(err){
      console.log(err);
    }
    else{
      console.log('email send: ' + info.response);
    }
  })
}

function factorialFn(num){
  if(num == 0){
    return 1
  }
  else{
    return num*factorialFn(num-1)
  }
}

http.createServer(function (req, res) {
  res.write(`<h1>This is the backend application with url ${req.url}</h1>`);
});
```

```

if(req.url.includes('sumoftwo')){
  let arr = req.url.split('n1=');
  let valuesArr = arr[1].split('&n2=');
  let result = parseInt(valuesArr[0]) + parseInt(valuesArr[1])
  res.write(`<h1>Sum of two is ${result}</h1>`);
  res.end();
}
else if(req.url.includes('prime')){
  let valueAr = req.url.split('num=');
  let primeFlag = primeFn(parseInt(valueAr[1]));
  res.write(`<h1>${primeFlag}</h1>`);
  res.end();
}
else if(req.url.includes('mail')){
  sendMailNow();
  res.write(`<p>A mail has been sended to ${mailOptions.from}</p>`);
  res.end();
}
else if(req.url.includes('fact')){
  let temp = req.url.split('=');
  let factorial = factorialFn(parseInt(temp[1]));
  res.write(`<p>Factorial of number ${parseInt(temp[1])} is
${factorial}</p>`);
  res.end();
}
else{
  res.write(`<h1>no such url</h1>`);
  res.end();
}
}).listen(6060);

let fs = require('fs');

function createFile(){
  fs.writeFile('abc.txt','hello this is a sample message',(err)=>{
    if(err) throw err;
    console.log('saved');
  })
}

function readFromFile(){
  fs.readFile('abc.txt','utf8',(err,data)=>{
    if(err){
      console.log(`Error occured when reading from file ${err}`);
    }
    else{
      console.log(`Data from file: ${data}`)
    }
  })
}

```

```

    }
  });
}

function deleteFromFile(){
  fs.unlink('sumModule.js',(err)=>{
    if(err){
      console.log(`Error occured : ${err}`);
    }
    else{
      console.log(`successfully removed file`);
    }
  });
}

function checkFileExit(){
  fs.access('abcd.txt',(err)=>{
    if(err){
      console.log('file not found');
    }
    else{
      console.log('file found');
    }
  });
}

function readDir(){
  fs.readdir('.',(err,files)=>{
    if(err){
      console.log('some error occured. ');
    }
    console.log(`Files is directory: ${files}`);
  });
}

function getFileStats(){
  fs.stat('abc.txt',(err,stats)=>{
    if(err){
      console.log(`some error ${err}`);
    }
    console.log(`Files size: ${stats.size}`);
    console.log(`Created: ${stats.birthtime}`);

  })
}

getFileStats();

```

output➡

```
> programs@1.0.0 start
```

```
> node index.js
```

saved

```
PS D:\NODE-Programs> npm start
```

```
> programs@1.0.0 start
```

```
> node index.js
```

saved

```
PS D:\NODE-Programs> npm start
```

```
> programs@1.0.0 start
```

```
> node index.js
```

Data from file: hello this is a sample message

```
PS D:\NODE-Programs> npm start
```

```
> programs@1.0.0 start
```

```
> node index.js
```

Data from file: hello this is a sample message

```
PS D:\NODE-Programs> npm start
```

```
> programs@1.0.0 start
```

```
> node index.js
```

Data from file: hello this is a sample message

Error occurred when reading from file null

PS D:\NODE-Programs> npm start

> programs@1.0.0 start

> node index.js

Data from file: hello this is a sample message

PS D:\NODE-Programs> npm start

> programs@1.0.0 start

> node index.js

successfully removed file

PS D:\NODE-Programs> npm start

> programs@1.0.0 start

> node index.js

PS D:\NODE-Programs> npm start

> programs@1.0.0 start

> node index.js

file found

PS D:\NODE-Programs> npm start

> programs@1.0.0 start

> node index.js

file not found

```
PS D:\NODE-Programs> npm start
```

```
> programs@1.0.0 start
```

```
> node index.js
```

```
Files is directory: abc.txt,index.js,isprime.js,largestOfThree.js,node_modules,package-lock.json,package.json
```

```
PS D:\NODE-Programs> npm start
```

```
> programs@1.0.0 start
```

```
> node index.js
```

```
Files size: 30
```

```
Created: Fri Oct 11 2024 15:47:05 GMT+0530 (India Standard Time)
```

```
PS D:\NODE-Programs>
```