Convert Value Celsius into Fahrenheit in JavaScript

```
<!DOCTYPE html>
<html>
 <body>
    Convert celcius to faranheit value
    Celcius Value:<input id="txtCelcius" onkeyup="convert('C')" />
    Farenhit Value:<input id="txtFahrenhit" onkeyup="convert('F')" />
    <script>
      function convert(degree) {var p;
        if (degree == "C") {
          p = (document.getElementById("txtCelcius").value * 9) / 5 + 32;
          document.getElementById("txtFahrenhit").value = Math.round(p);
        } else {
          p = ((document.getElementById("txtFahrenhit").value - 32) * 5) / 9;
          document.getElementById("txtCelcius").value = Math.round(p);
    </script>
 </body>
</html>
```

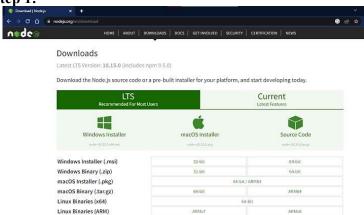
Output:	
Convert celcius to faranheit value	
Celcius Value: 36	
Farenhit Value: 97	
Results:	
Thus, the above Program to Convert Value Celsius into Fahrenheit in JavaScrigsuccessfully.	ot was executed

Implement getElementsByClassName() method in JavaScript

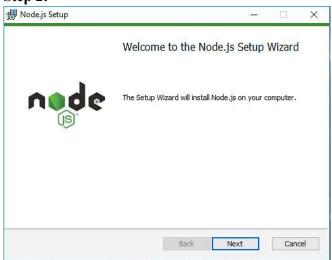
Output: The value is presented inside the class This page says Click The value is presented inside the class OK **Results:** Thus, the above Program to Implement getElementsByClassName() method in JavaScript was executed successfully.

Install Node.JS

Step 1:



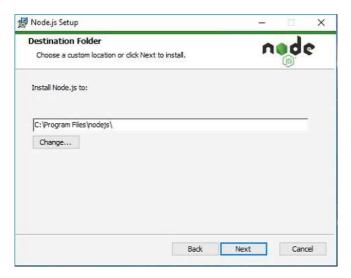
Step 2:



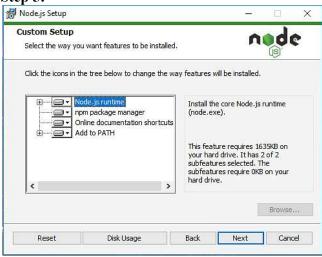
Step 3:

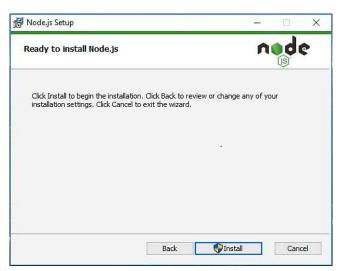


Step 4:



Step 5:





Step 6:

C:\Users\Admin> node -v

```
Microsoft Windows [Version 10.0.16299.547]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Admin>node -v
v10.15.3

C:\Users\Admin>
```

Results:

Thus, the above Program to Install Node.JS was installed successfully.

Create Web Server

```
httpWebServer.js
```

```
var http = require("http");
http
   .createServer(function (req, res) {
    res.write("Hello World!"); res.end();
   })
.listen(8080);
```



Hello World!

Results:

Thus, the above Program to Create Web Server was executed successfully.

Use NPM Command

>>npm init

```
PS C:\Users\Thameem\Downloads\OSTPracticals> npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
See `npm help init` for definitive documentation on these fields
and exactly what they do.
Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (ostpracticals)
version: (1.0.0)
description: OST Practical Exercise
entry point: (httpWebServer.js)
test command:
git repository:
keywords:
author: UserName
license: (ISC)
About to write to C:\Users\Thameem\Downloads\OSTPracticals\package.json:
  "name": "ostpracticals",
  "version": "1.0.0",
  "description": "OST Practical Exercise",
  "main": "httpWebServer.js",
"scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  "author": "UserName",
  "license": "ISC"
Is this OK? (yes)
PS C:\Users\Thameem\Downloads\OSTPracticals>
```

>>npm i express

```
PS C:\Users\Thameem\Downloads\OSTPracticals> npm i express

up to date, audited 58 packages in 1s

7 packages are looking for funding
   run `npm fund` for details

found 0 vulnerabilities
PS C:\Users\Thameem\Downloads\OSTPracticals> [
```

```
EXPLORER
                                                                  JS httpWebServer.js
                                                                                                  1) package.json ×
OPEN EDITORS
                                                                   () package.json > ...
      JS httpWebServer.js
                                                                               "name": "ostpracticals",
"version": "1.0.0",
"description": "OST Practical Exercise",
"main": "httpWebServer.js",
  × () package.json
OSTPRACTICALS
  > node_modules
JS httpWebServer.js
                                                                                Debug
                                                                                "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
() package-lock.json
() package.json
                                                                              },
"author": "UserName",
"license": "ISC",
"dependencies": {
"ess": "^4.18.2
                                                                                   "express": "^4.18.2"
```

Results:

Thus, the above Program to Use NPM Command was executed successfully.

Retrieve Values using Express

Folder Structure:

```
const express = require("express");
// Include ExpressJS
const app = express();
// Create an ExpressJS app
const bodyParser = require("body-parser");
// Middleware
app.use(bodyParser.urlencoded({ extended: false }));
// Route to Homepage
app.get("/", (req, res) => { res.sendFile(_dirname + "/index.html"); });
// Route to Login Page
app.get("/login", (req, res) => { res.sendFile(_dirname + "/login.html"); });
app.post("/login", (req, res) => {
  // Insert Login Code Here
  let username = req.body.username;let
  password = req.body.password;
  res.send(`Username: ${username} Password: ${password}`);
});
const port = 3000; // Port we will listen on
// Function to listen on the port
app.listen(port, () => console.log(`This app is listening on port ${port}`
));
```

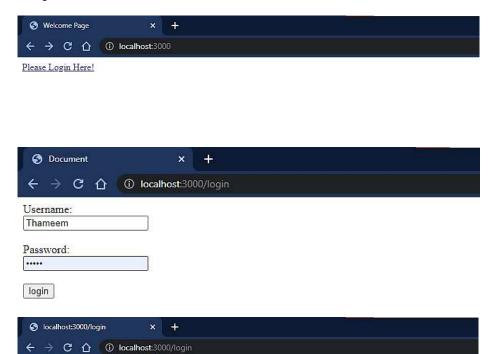
index.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Welcome Page</title>
  </head>
  <body>
    <a href="/login">Please Login Here!</a>
  </body>
</html>
<!DOCTYPE html>
```

login.html:

```
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Login Page</title>
  </head>
  <body>
    <form action="/login" method="post">
      <!-- user input-->
      Username:<br/>
      <input
        type="text"
        name="username"
        placeholder="Username"
        required
      /><br /><br />
      Password:<br/>
```

```
<input
                type="password"
                name="password"
                placeholder="Password"
                required
             /><br/>/>
             <!-- submit button -->
            <input type="submit" value="login" />
          </form>
        </body>
      </html>
Package.json:
    "name": "ost4",
    "version": "1.0.0",
    "description": "OST practical Exercise 4", "main":
    "server.js",
    "scripts": {
       "test": "echo \"Error: no test specified\" && exit 1","start": "node
       server.js"
    },
    "author": "",
    "license": "ISC",
     "dependencies": {
       "body-parser": "^1.20.2",
       "express": "^4.18.2"
```



Username: Thameem Password: 12345

Results:

Thus, the above Program to Retrieve Values using Express was executed successfully.

Highlight Menu using Angular.js

```
index.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link href="style.css" rel="stylesheet" />
    <title>Document</title>
  </head>
  <body ng-app>
    <nav class="{{active}}" ng-click="$event.preventDefault()">
      <a href="#" class="home" ng-click="active='home" >Home </a>
      <a href="#" class="about" ng-click="active='about"">About</a>
      <a href="#" class="contact" ng-click="active='contact"">Contact</a>
    </nav>
    You chose <b>{{active}}</b>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.0.7/angular.min.js"></script>
  </body>
</html>
style.css
a:hover, a:focus,
a:active {
  text-decoration: none; color:
  inherit;
  font-size: large;
nav {
  display: inline-block; background-
  color: #55b460; border-radius: 4px;
nav.home.home, nav.team.team,
nav.about.about,
nav.contact.contact {
  background-color: #a9aedd;
```

Output:	
Home About Contact	
You chose about	
Results:	
Thus, the above Program to Highlight Menu using Angular.js was executed successfully.	

Manipulate Web Page using JQuery

Source Code:

index.html:

Output:		
Output:		
Hello	World!	
Click me		
After But	ton click:	
Have	a nice day!	
Click me		
Results:		
Thus, the a	bove Program to Manipulate Web Page using JQuery was executed su	ccessfully.

Different Events of a Web Page using JQuery

```
<!DOCTYPE html>
<html>
  <head>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  </head>
  <body>
    <h1>Hello World!</h1>
        <script>
            $(document).ready(function() {
               $("h1").click(function() {
                $(this).hide();
         });
         $("h1").hover(function() {
           $(this).css("background-color", "yellow");
         });
         $("h1").mousedown(function() {
           $(this).css("background-color", "red");
         });
      });
    </script>
  </body>
</html>
```

Hello World!

Hello World!

Results:

Thus, the above Program to Different Events of a Web Page using JQuery was executed successfully.

Different Effects using JQuery

```
<!DOCTYPE html>
<html>
  <head>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
    <script>
      $(document).ready(function() {
        $(".btn1").click(function() {
          $("p").slideUp();
        });
        $(".btn2").click(function() {
           $("p").slideDown();
        });
      });
    </script>
  </head>
  <body>
    This is a paragraph.
    <button class="btn1">Slide up</button>
    <button class="btn2">Slide down</button>
  </body>
</html>
```

Outputs	
Output:	
This is a paragraph.	
Slide up Slide down	
Results:	
Thus, the above Program to Different Effects using JQuery was executed successfully.	