Exercise 7: Design Node Blog system

Index.js

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

const express = require('express');

const app = new express();

app.use(express.static('public'));

app.get('/', (req, res) => {
    res.sendFile(path.resolve(__dirname, 'pages/index.html'));
});

app.listen(8000, () => {
    console.log('App listening on port 8000')
});
```
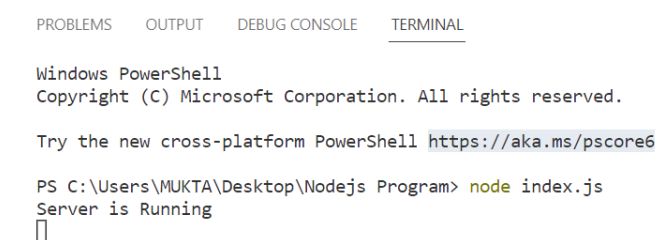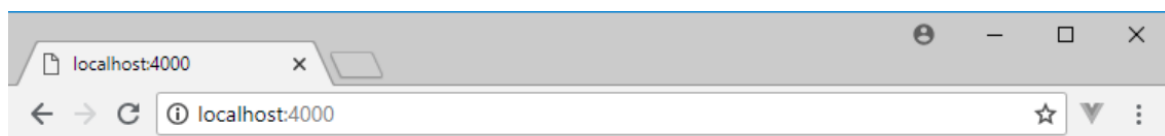
Index.html

```html
<h1>Blog Home Page</h1>
```

output

Exercise 8: Design book store system

```javascript
var express = require('express');
var app = require('express')();

app.set('views', __dirname + '/views');
app.set('view engine', 'ejs');
app.use(express.static('public'));

app.get('/', function (req, res) {
  res.render("client");
});

app.listen(5000, function () {
  console.log('listening on *:5000');
});
```

style.css

```css
* {
  padding: 0;
  margin: 0;
  text-decoration: none;
  list-style: none;
  box-sizing: border-box;
}

body {
  font-family: "Lato", sans-serif;
  text-align: center;
}

h1,
h2,
h3,
h4,
h5,
h6 {
  font-family: "Lato", sans-serif;
}
```

```css
/*** -------------- NAV BAR -------------- ***/

/* Login/registration */
.identification-btn {
  padding: 5px;
}

.form-group {
  padding-bottom: 10px;
  text-align: left;
  width: 500px;
}

/* Nav bar */
.navbar {
  display: flex;
  justify-content: flex-end;
  align-items: flex-start;
}

.navbar-top {
  justify-content: flex-end;
}

.nav-link {
  font-weight: bold;
  font-size: 1rem;
  text-transform: uppercase;
}

nav ul {
  display: flex;
}

nav ul li {
  line-height: 80px;
  margin: 0 5px;
}

nav ul li a {
  font-size: 17px;
  padding: 7px 13px;
  border-radius: 5px;
}

/* Remove orange border around hamburger menu */
.navbar-toggler:focus {
```

```css
    outline: none;
}

/* Search bar */
.search-input {
  width: 100%;
  height: 40px;
  border-style: hidden;
  border-radius: 4px;
  padding: 16px;
}

#close-search {
  height: 50px;
  width: 50px;
  margin-left: 440px;
  margin-top: 5px;
}

.modal-footer {
  border: 0;
}

/***  ------------------ LOGO --------------- ***/

.nav-brand {
  display: flex;
}

.logo-image {
  max-width: 80px;
  max-height: 60px;
}

/*** ------------------  CAROUSEL --------------- ***/

/* Indicators */
.carousel-indicators li {
  height: 5px;
  margin-bottom: -10px;
  padding-right: 5px;
}

.carousel-indicators li:hover {
  transform: scale(1.2);
}

/* Controls */
```

```css
.control-prev,
.control-next {
  font-size: 50px;
}

/*** --------------- SECTION NEW BOOKS + OUR SELECTION --------------- ***/

.card-img-top {
  height: 360px;
}

.card-deck {
  padding: 17px;
}

.card {
  transition: 0.4s;
}

.card:hover {
  transform: scale(1.1);
}

.newBooks-title,
.ourSelection-title {
  text-align: left;
  font-size: 1.5 rem;
  font-weight: bold;
  color: #696b6e;
  margin-top: 30px;
  margin-left: 31px;
  margin-bottom: 20px;
  text-transform: uppercase;
}

.card-price {
  font-weight: bold;
}

/*** --------------- FOOTER --------------- ***/

footer {
  display: flex;
  justify-content: flex-end;
  align-items: flex-start;
  margin-bottom: 25px;
  margin: auto;
  padding: 35px;
```

```css
  color: #343a40;
  font-weight: bold;
  font-size: 1rem;
  text-transform: uppercase;
}

.social-icon {
  font-size: 20px;
  margin: 20px 8px;
  cursor: pointer;
}

/*** -------------- MEDIA QUERIES -------------- ***/

@media all and (max-width: 752px) {
  .navbar-toggler {
    position: fixed;
  }

  .nav-item {
    margin: 10px 0;
    line-height: 10px;
  }

  .nav-link {
    font-size: 18px;
  }

  .logo-image {
    max-width: 145px;
    min-height: 25px;
    margin-right: 50px;
  }

  .search-container {
    width: 80%;
    margin-top: 10px;
    margin-bottom: 8px;
    margin-right: 90px;
  }

  #search-bar {
    width: 100%;
    height: 40px;
    justify-content: flex-end;
    margin: 0;
  }
```

```css
  .search-button {
    width: 50px;
    height: 40px;
    margin-right: 25px;
  }

  .card {
    margin: auto;
  }
}

@media all and (max-width: 992px) {
  .nav-item {
    line-height: 35px;
  }

  .nav-link {
    font-size: 1rem;
  }

  .card-img-top {
    height: 460px;
  }

  .card:hover {
    transform: none;
  }
}

@media all and (max-width: 575.98px) {
  .navbar-toggler {
    position: absolute;
  }
  .logo-image {
    max-width: 50px;
    min-height: 40px;
  }

  .carousel-image {
    max-height: 250px;
  }
}
```

Validate.js

```javascript
// -------------- SEARCH BAR --------------

const formSearch = document.getElementById("myFormIdSearch");

function searchValidate() {
    let errorSearch = 0;

    formSearch.classList.remove("is-invalid");


    let inputSearch = document.forms["myFormSearch"]["defaultSearch"];


    // Password
    if (inputSearch.value.length < 3) {
        inputSearch.classList.add("is-invalid");
        document.getElementById("errorSearch").textContent = "Please insert at
least 3 characters.";
        errorSearch++;
    }


    if (errorSearch > 0) {
        return false;
    } else {
        return true;
    }

}

formSearch.addEventListener("blur", (event) => {
    console.log(event);
    if (event.target.value != '') event.target.classList.remove("is-invalid");
}, true);


// -------------- LOGIN --------------

const formLogin = document.getElementById("myFormIdLogin");

function loginValidate() {
    let errorMessageLogin = 0;

    formLogin.classList.remove("is-invalid");
```

```javascript
    let inputEmailLogin = document.forms["myFormLogin"]["defaultForm-email"];
    let inputPasswordLogin = document.forms["myFormLogin"]["defaultForm-
pass"];

    // Email
    if (inputEmailLogin.value == "") {
        inputEmailLogin.classList.add("is-invalid");
        document.getElementById("errorEmailLogin").textContent = "Please enter
your email.";
        errorMessageLogin++;

    } else if (!validar_email(inputEmailLogin.value)) {
        inputEmailLogin.classList.add("is-invalid");
        document.getElementById("errorEmailLogin").textContent = "Invalid
email";
        errorMessageLogin++;
    }

    // Password
    if (inputPasswordLogin.value == "") {
        inputPasswordLogin.classList.add("is-invalid");
        document.getElementById("errorPasswordLogin").textContent = "Please
enter your password.";
        errorMessageLogin++;
    }


    if (errorMessageLogin > 0) {
        return false;
    } else {
        return true;
    }

}

formLogin.addEventListener("blur", (event) => {
    console.log(event);
    if (event.target.value != '') event.target.classList.remove("is-invalid");
}, true);




// --------------  REGISTER  ---------------

const form = document.getElementById("myFormId");
```

```javascript
function registerValidate() {
    let errorMessage = 0;

    form.classList.remove("is-invalid");

    let inputUsername = document.forms["myForm"]["form-username"];
    let inputEmail = document.forms["myForm"]['form-email'];
    let inputPassword = document.forms["myForm"]["form-password"];
    let inputConfirmPassword = document.forms["myForm"]["form-
confirmPassword"];
    let inputProvince = document.forms["myForm"]["form-province"];

    // Username
    if (inputUsername.value == "") {
        inputUsername.classList.add("is-invalid")
        document.getElementById("errorUsername").textContent = "Please enter
your username.";
        errorMessage++;
    }

    //  Email
    if (inputEmail.value == "") {
        inputEmail.classList.add("is-invalid");
        document.getElementById("errorEmail").textContent = "Please enter your
email.";
        errorMessage++;
    } else if (!validar_email(inputEmail.value)) {
        inputEmail.classList.add("is-invalid");
        document.getElementById("errorEmail").textContent = "Invalid email";
        errorMessage++;
    }

    // Password
    if (inputPassword.value == "") {
        inputPassword.classList.add("is-invalid");
        document.getElementById("errorPassword").textContent = "Please enter
your password.";
        errorMessage++;
    }

    // Confirm Password
    if (inputConfirmPassword.value == "") {
        inputConfirmPassword.classList.add("is-invalid");
        document.getElementById("errorConfirmPassword").textContent = "Please
confirm your password.";
        errorMessage++;
    }
```

```javascript
    // Province
    if (inputProvince.value == "") {
        inputProvince.classList.add("is-invalid");
        document.getElementById("errorProvince").textContent = "Please enter
your province.";
        errorMessage++;
    }

    if (errorMessage > 0) {
        return false;
    } else {
        return true;
    }

}

form.addEventListener("blur", (event) => {
    console.log(event);
    if (event.target.value != '') event.target.classList.remove("is-invalid");
}, true);

function validar_email(email) {
    let regex = /^([a-zA-Z0-9_\.\-])+\@(([a-zA-Z0-9\-])+\.)+([a-zA-Z0-
9]{2,4})+$/;
    return regex.test(email) ? true : false;
}
```
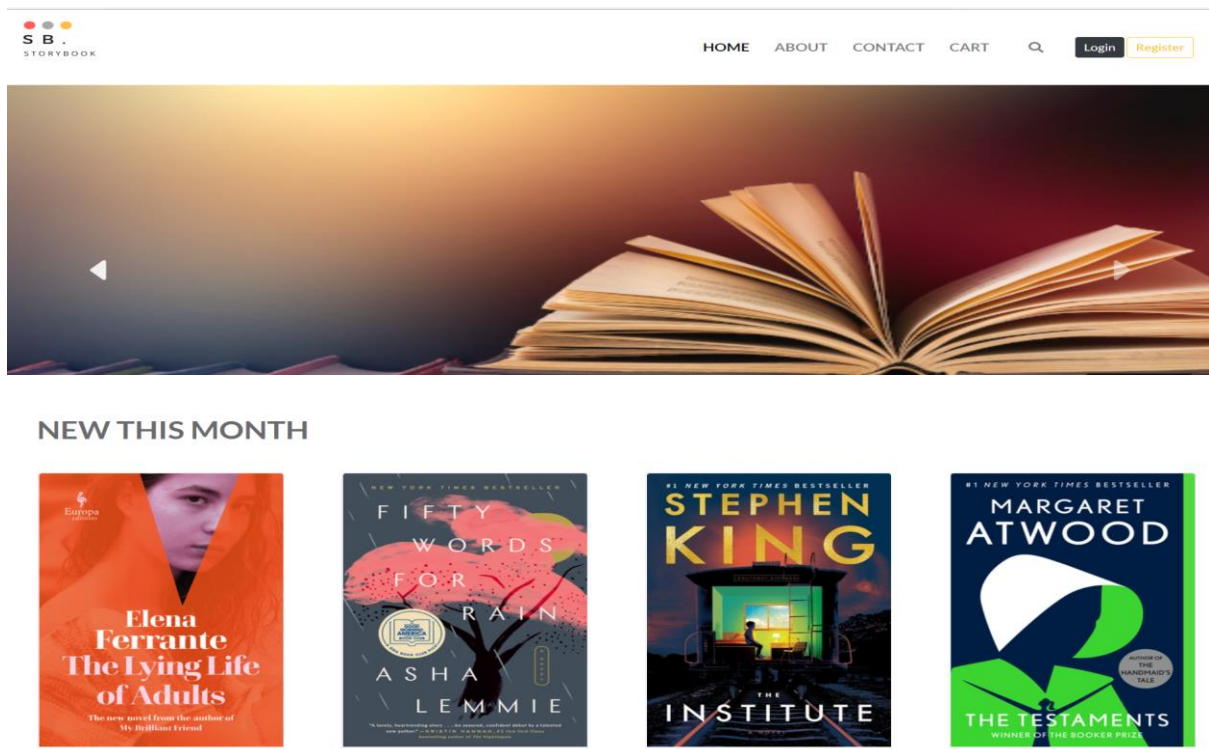
Output:

Exercise 9: Design a Portfolio App

index.js

```js
document.querySelectorAll(".projects-div").forEach((element, i) => {
  console.log(i);
  const ulClassName = `project-description-${i}`;
  const ulTag = element.getElementsByTagName("ul")[0];
  ulTag.className = ulClassName;
  ulTag.style.opacity = 0;
  ulTag.style.display = "none";

  element.addEventListener("click", () => {
    console.log(i);

    if (ulTag.style.display === "none") {
      gsap.to(`.${ulTag.className}`, {
        duration: 0.5,
        display: "block",
        opacity: 1
      });
    } else {
      gsap.to(`.${ulTag.className}`, {
        duration: 0.25,
        display: "none",
        opacity: 0
      });
    }
  });
});
```

style.css

```css
body {
  font-family: "Raleway", sans-serif;
}

a {
  font-size: 1.4rem;
  color: white;
}

p {
  font-size: 1.6rem;
  font-weight: 500;
}
```

```css
h1 {
  font-size: 5rem;
}

h2 {
  font-size: 3rem;
}

h3 {
  font-size: 2.2rem;
  font-weight: 400;
}

h4 {
  font-size: 1.8rem;
}

ul {
  list-style-type: disc;
}
li {
  font-size: 1.6rem;
  font-weight: 500;
}

header {
  background: #003399;
  height: 5rem;
  display: flex;
  align-items: center;
}

header nav {
  display: flex;
  width: 800px;
  margin: 0 auto;
}

header nav a {
  padding: 0 1.5rem;
  border-right: 1px solid #5b5857;
}

header nav a:last-child {
  border: none;
}

.container {
```

```css
    width: 800px;
    margin: 0 auto;
}

.title-section {
    display: flex;
    justify-content: space-between;
}

.title-img-div {
    width: 100%;
    height: 70rem;
}

.title-img-h-div {
    color: white;
    position: relative;
    bottom: 26rem;
    left: 1rem;
    width: 550px;
    margin: 0 auto;
}

.title-img-h-div h1 {
    font-family: "Bebas Neue", cursive;
    letter-spacing: 0.5rem;
    font-size: 9rem;
    margin-bottom: 2rem;
}

.title-img-h-div h2:first-child {
    font-size: 2.6rem;
    margin-bottom: 2rem;
}

.title-img-h-div h2 {
    font-size: 2rem;
    font-weight: 100;
    letter-spacing: 0.5rem;
}

.title-background {
    width: 100%;
    height: 70rem;
    object-fit: cover;
}

.title-sidebar-div {
```

```css
  width: 30%;
  min-width: 225px;
  background: #262626;
  color: #e6e6e6;
  display: flex;
  flex-direction: column;
  align-items: center;
  height: 70rem;
}

.title-sidebar-div h3 {
  font-size: 4rem;
  margin: 2rem 0;
  font-family: "Bebas Neue", cursive;
  font-weight: 100;
}

.title-sidebar-div h4 {
  font-size: 1.6rem;
  font-weight: 100;
}

.title-fullstack-icon {
  height: 8rem;
  width: 8rem;
  filter: invert(100%);
  margin-bottom: 9rem;
}

.title-portfolio-icons {
  margin: 2rem 0;
  display: flex;
  align-items: center;
  justify-content: space-between;
  width: 12rem;
  filter: invert(100%);
}

.title-linkedin-icon {
  height: 5rem;
  width: 5rem;
}

.title-github-icon {
  height: 4.25rem;
  width: 4.25rem;
}
```

```css
.title-profession-h4 {
  margin-bottom: 1rem;
}

.title-email-h4 {
  margin-bottom: 0.5rem;
}

.title-sidebar-portfolio-img {
  margin-top: 2rem;
  width: 15rem;
  height: 15rem;
  border-radius: 15rem;
  border: 1rem solid #1a1a1a;
}

.about-section {
  background: #e6e6e6;
  padding: 3rem 0;
}

.about-section h2 {
  font-family: "Bebas Neue", cursive;
  color: black;
  margin-bottom: 1rem;
  margin-left: 1rem;
}

.about-section p {
  line-height: 3.3rem;
  margin-left: 1rem;
}

.skills-section {
  padding: 3rem 0;
  background: #262626;
  color: #e6e6e6;
}

.skills-div {
  display: flex;
  justify-content: center;
  flex-wrap: wrap;
  max-width: 1000px;
  margin: 0 auto;
}

.skills-section h2 {
```

```css
  font-family: "Bebas Neue", cursive;
  color: #e6e6e6;
  letter-spacing: 0.2rem;
  font-weight: 600;
  margin-left: 1rem;
}

.skills-section .container h3 {
  margin: 2rem 0;
  margin-left: 1rem;
}

.skills-card {
  background: #1a1a1a;
  color: #e6e6e6;
  width: 15rem;
  display: flex;
  flex-direction: column;
  align-items: center;
  padding: 1rem 0;
  border-radius: 1rem;
  margin: 1rem 0.5rem;
}

.skills-card img {
  height: 13rem;
  width: 13rem;
  margin-bottom: 1rem;
}

.projects-section {
  background: #e6e6e6;
  padding: 3rem 0;
}

.projects-section .container {
  display: flex;
  flex-direction: column;
  align-items: center;
}

.projects-section h2 {
  font-family: "Bebas Neue", cursive;
  font-size: 4rem;
}

.projects-div {
  margin: 3rem 0 6rem 0;
```

```css
  cursor: pointer;
  background: #d9d9d9;
  padding: 2rem;
  width: 100%;
}

.projects-div h3 {
  font-weight: 600;
  margin-bottom: 0.5rem;
}

.projects-div h4 {
  font-weight: 500;
  margin-bottom: 1.5rem;
}

.projects-description {
  display: none;
}

.projects-div ul li {
  margin: 1rem 0 1rem 4rem;
  line-height: 2.2rem;
}

.projects-icons {
  width: 11rem;
  display: flex;
  justify-content: space-between;
  margin-bottom: 2rem;
}

.projects-icons img {
  height: 4.5rem;
  width: 4.5rem;
}

.experience-section {
  background: #262626;
  color: #e6e6e6;
  padding: 4rem 0;
}

.experience-section .container {
  display: flex;
  justify-content: space-between;
}
```

```css
.experience-div {
  width: 45%;
  display: flex;
  flex-direction: column;
}

.experience-div h2 {
  font-family: "Bebas Neue", cursive;
  margin-bottom: 4rem;
  font-weight: 400;
  letter-spacing: 0.1rem;
}

.experience-div div {
  margin-bottom: 3rem;
}

.experience-div div h3 {
  font-weight: 600;
  margin-bottom: 0.7rem;
}

.experience-div div h4 {
  font-weight: 400;
  font-size: 1.8rem;
  margin-bottom: 0.5rem;
}

footer {
  background: #003399;
  padding: 3rem 0;
}

footer .container {
  display: flex;
  justify-content: space-between;
}

.footer-info {
  color: white;
}

.footer-info h3 {
  margin-left: 1rem;
}

.footer-info h4 {
  font-weight: 100;
```

```css
    margin: 1rem;
}

footer .title-portfolio-icons {
    margin-right: 1rem;
}

@media (max-width: 800px) {
    header nav {
        width: 100%;
    }

    .title-img-h-div {
        width: 100%;
        bottom: 27rem;
    }

    .title-sidebar-div {
        display: none;
    }

    .container {
        width: 100%;
    }

    .about-section p {
        width: 95%;
    }

    .skills-card {
        width: 10rem;
        height: 10rem;
    }
    .skills-card img {
        height: 5rem;
        width: 5rem;
        margin-bottom: 3rem;
    }

    .skills-card h3 {
        font-size: 1.5rem;
    }

    .skills-div {
        padding: 0;
    }

    .projects-div {
```

```css
    width: 90%;
  }

  .projects-div ul li {
    width: 85%;
  }

  .projects-div h4 {
    width: 95%;
  }

  .experience-div {
    margin-left: 1rem;
  }

  footer .title-portfolio-icons {
    flex-direction: column;
  }

  footer .title-portfolio-icons img {
    margin-bottom: 2rem;
  }
}

@media (max-width: 500px) {
  .title-img-h-div {
    bottom: 38rem;
  }

  .experience-section .container {
    display: block;
    text-align: center;
  }

  .experience-div {
    width: 95%;
  }
}
```
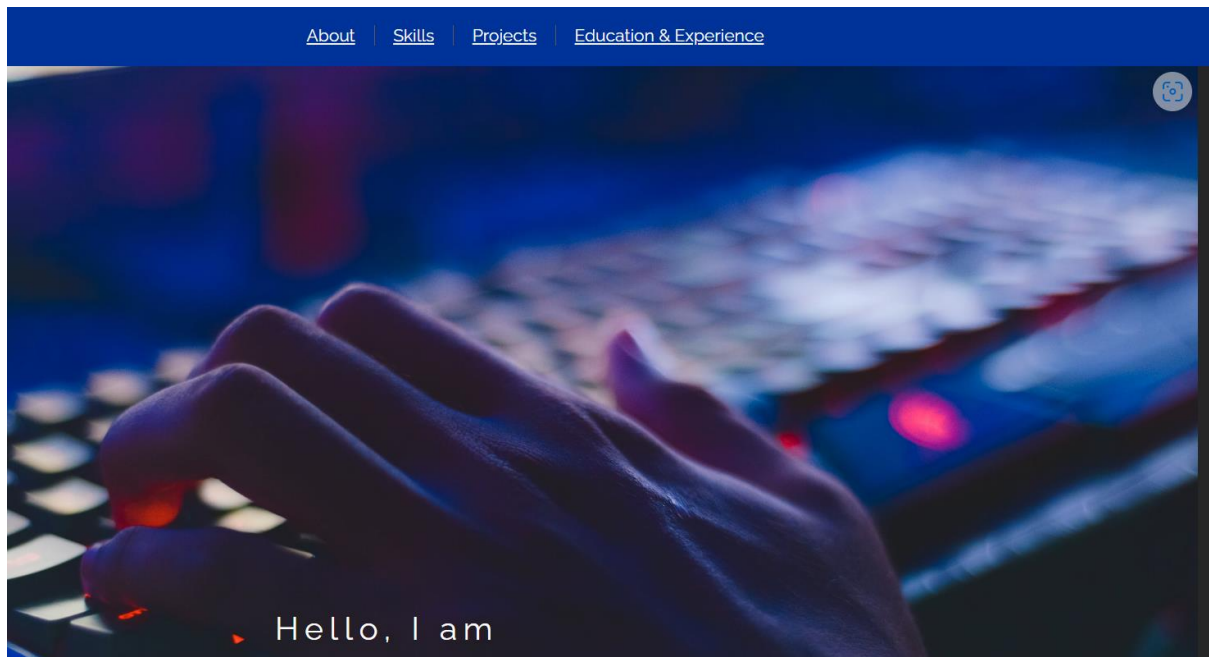
Output

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\MUKTA\Desktop\Nodejs Program> node index.js
Server is Running
```

Exercise: 10 Design Node E Learning system

Index.js

```javascript
// window.addEventListener("DOMContentLoaded", (startApplication) =>{

// function startApplication(event) {
document.getElementById("clickHere").onclick = changeColor;
// document.getElementById("index-button").onclick = showOptions;
// document.getElementById("address-link").onclick = navigateToAddressSection;

var x = "red";

function changeColor(SridahEvent) {
  SridahEvent.preventDefault();
  if (x === "red") {
    document.body.style.color = "black";
    x = "black";
    alert("BLACK font is on the way");
  } else {
    document.body.style.color = "red";
    x = "red";
    alert("RED font is on the way");
  }
  return x;
}

// function showOptions(e) {
//   e.preventDefault();
//   var section = document.getElementById("objectives");
//   section.scrollIntoView();
// }

function navigateToAddressSection(e) {
  e.preventDefault();
  var field = document.getElementById("address");
  field.scrollIntoView();
}
// }
// });
```

Style.css

```css
body {
  color: red;
}
h1,
h2 {
  font-family: areal;
  font-size: 32px;
  color: black;
}
.my-table {
  border: 10;
}
```

Output

Exploring HTML

A simple primary alertâ€"check it out!

INDEX Summary Information Danger

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Summary

New to web design? Start here first. In these tutorials, James Williamson introduces the fundamental concepts, tools, and *learning paths* for web design. *Along the way, he talks to five prominent designers and developers, who have each found success in a different corner of the web.*

Overview

If you want to get up and running fast, check out the chapter on getting online, choosing a domain name and web host, and getting around the backend of a standard website. you have a lot of vertical scrolling for things like frequently asked questions, glossaries, it's pretty common to find these types of links, that you sort of jump down to the page. Now, they also allow you to jump to specific sections of other pages as well. So, if we go to the destination.htm, preview that in the browser, we can see that this one doesn't have the navigation, but it does have three

Objectives