

ព្រះរាជាណាចក្រកម្ពុជា

ជាតិ សាសនា ព្រះមហាក្សត្រ



Institute of technology of Cambodia

Department of Information and communication

<<Report TP IP04>>

TP: INTERNET PROGRAM

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URL GIT: VenThon/TP04_IP (github.com)

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Ex1: Tab design following UI to have 3 tabs

```
TP4 > 🥫 IndexEx1TP04.html > 쉾 html > 쉾 head > 🛇 style > 😘 h1 > ધ p
       <!DOCTYPE html>
       <html lang="en">
           <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>Tab</title>
               body{
                   width: 100%;
                   display: flex;
                   justify-content: center;
               .container{
                   width: 80%;
                   background-color: azure;
                   border: 2px solid □black;
                   padding: 15px;
               h1, p{
                   display: flex;
                   justify-content: center;
 23
               img{
                   width: 100%;
               .btn{
                   width: 100%;
                   background-color: ■white;
                   display: flex;
                   justify-content: space-between;
                   height: 35px;
                   width: 33.33%;
                   height: 100%;
```

```
TP4 > 🥫 IndexEx1TP04.html > � html > � head > � style > ધ .container
               .content{
                  width: 95%;
                  background-color: ■white;
                  padding: 15px;
          </style>
      </head>
          <div class="container">
              <div class="header">
                  <h1>About</h1>
                  Lorem ipsum dolor sit amet consectetur adipisicing elit. Maiores rem accusamus.
              </div>
                  <img src="./flower.png" alt="">
              </div>
              <div class="btn">
                  <button id="history" type="button">History/button>
                  <button id="vision" type="button">Vision
                  <button id="goals" type="button">Goals/button>
              </div>
              <div class="content" id="demo">
              </div>
          </div>
          <script>
              var History = document.getElementById("history")
              var Vision = document.getElementById("vision")
              var Goals = document.getElementById("goals")
              var Demo = document.getElementById("demo")
              function myhistory(){
                  History.style.backgroundColor="blue"
                  Vision.style.background="white"
                  Goals.style.background="white"
                  Demo.innerHTML =
                  <div>
```

```
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| IndexEstTPO4.html > ② html > ② head > ② style > 1 scontainer
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| IndexEstTPO4.html > ② html > ② head > ② head > ② head > ② head > 3 style > 1 scontainer
| IndexEstTPO4.html > ② html > ② head > ② head > ② head > 3 style > 1 scontainer
| IndexEstTPO4.html > ② html > ② head > ② head > ② head > 3 style > 1 scontainer
| IndexEstTPO4.html > ② html > ② head > 3 style > 1 scontainer
| IndexEstTPO4.html > ② html > ② head > 3 style > 1 scontainer
| IndexEstTPO4.html > ② html > 3 style > 1 scontainer
| IndexEstTPO4.html > ② head > 3 style > 1 scontainer
| IndexEstTPO4.html > ② head > 3 style > 3 style
```

About

Lorem ipsum dolor sit amet consectetur adipisicing elit. Maiores rem accusamus.



History

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum hostory.

About

Lorem ipsum dolor sit amet consectetur adipisicing elit. Maiores rem accusamus.



Vision

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchang and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum vision.

Ex2: Responsive menu design following responsive UI as following

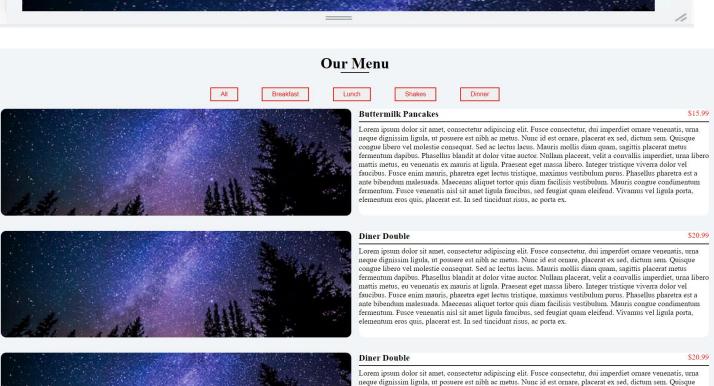
```
TP4 > Ex2 > 🥫 index.html > 🔗 html > 🔗 body > 🏵 div#container > ⊘ div.wrapper > 🔗 div.content wrapper > ⊘ div.hearder wrapper > ⊘ div
     <html lang="en">
         <meta charset="UTF-8">
         <meta http-equiv="X-UA-Compatible" content="IE=edge">
         <meta name="viewport" content="width=device-width, initial-scale=1.0">
         <link rel="stylesheet" href="style.css">
         <title>Ex2 Tab</title>
         <div id="container">
             <div class="header">
                 <h1>0ur Menu</h1>
             <div style="display: flex; justify-content: center; width: 60px; border: 1px solid □black;"></div>
             <div style="display: flex; justify-content: center; gap: 50px; margin-top: 30px;">
                 <div><button type="text">All</button></div>
                 <div><button type="text">Breakfast</button></div>
                 <div><button type="text">Lunch</button></div>
                 <div><button type="text">Shakes</button></div>
                 <div><button type="text">Dinner</button></div>
             <div class="wrapper">
                 <div class="img">
                     <img src="https://source.unsplash.com/random/500x300/?landscape" alt="photo">
                 <div class="content wrapper">
                     <div class="hearder wrapper">
                         <div><strong><h3>Buttermilk Pancakes</h3></strong></div>
                         <div>$15.99</div>
                     <div style="border: 1px solid □black; margin-top: 5px;"></div>
                     <div class="text wrapper" style="--transform-x-percen:0%;">
                         <div class="content">
                                 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce consectetur, dui imperdiet ornare venenatis,
                                 urna neque dignissim ligula, ut posuere est nibh ac metus. Nunc id est ornare, placerat ex sed, dictum sem.
                                 Quisque congue libero vel molestie consequat. Sed ac lectus lacus. Mauris mollis diam quam, sagittis placerat
                                 metus fermentum dapibus. Phasellus blandit at dolor vitae auctor. Nullam placerat, velit a convallis imperdiet,
                                 urna libero mattis metus, eu venenatis ex mauris at ligula. Praesent eget massa libero. Integer tristique viverra
                                 dolor vel faucibus. Fusce enim mauris, pharetra eget lectus tristique, maximus vestibulum purus. Phasellus pharetra
                                 est a ante bibendum malesuada. Maecenas aliquet tortor quis diam facilisis vestibulum. Mauris congue condimentum fermentum.
                                 Fusce venenatis nisl sit amet ligula faucibus, sed feugiat quam eleifend. Vivamus vel ligula porta, elementum eros quis,
                                 placerat est. In sed tincidunt risus, ac porta ex.
```

```
TP4 > Ex2 > 5 index.html > 分 html > 分 body > 分 div#container > 分 div.wrapper > 分 div.img
              <div class="wrapper">
     <div class="img">
                     <img src="https://source.unsplash.com/random/500x300/?landscape" alt="photo">
                  <div class="content_wrapper">
                          <div><strong><h3>Diner Double</h3></strong></div>
                          <div>$20.99</div>
                       <div style="border: 1px solid □ black; margin-top: 5px;"></div>
                                  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce consectetur, dui imperdiet ornare venenatis,
                                  urna neque dignissim ligula, ut posuere est nibh ac metus. Nunc id est ornare, placerat ex sed, dictum sem.
                                  Quisque congue libero vel molestie consequat. Sed ac lectus lacus. Mauris mollis diam quam, sagittis placerat
                                  metus fermentum dapibus. Phasellus blandit at dolor vitae auctor. Nullam placerat, velit a convallis imperdiet,
                                  Fusce venenatis nisl sit amet ligula faucibus, sed feugiat quam eleifend. Vivamus vel ligula porta, elementum eros quis,
                                  placerat est. In sed tincidunt risus, ac porta ex.
                  <div class="img">
                     <img src="https://source.unsplash.com/random/500x300/?landscape" alt="photo">
                      <div style="border: 1px solid □black; margin-top: 5px;"></div>
```

```
ΓP4 > Ex2 > 🥫 style.css > ...
          margin: 0;
          padding: 0;
         box-sizing: border-box;
       body {
          width: 100%;
          min-height: 100vh;
       body #container {
          background-color: ■#f1f5f8;
          min-height: 100vh;
          display: flex;
          flex-direction: column;
          justify-content: space-evenly;
          align-items: center;
         padding: 2rem 0;
          width: 100%;
       body #container .header {
         text-align: center;
       body #container .header h1 {
         font-size: 2rem;
        body #container .header p {
         font-size: 1.2rem;
       body #container .wrapper {
          padding: 1rem;
         display: flex;
       @media only screen and (max-width: 1000px) {
          body #container .wrapper {
            flex-direction: column;
       body #container .wrapper > div {
          width: 100%;
          max-height: 30vh;
```

```
TP4 > Ex2 > 🧧 style.css > ...
        body #container .wrapper > div {
          width: 100%;
          max-height: 30vh;
        body #container .wrapper > div img {
          -o-object-fit: cover;
             object-fit: cover;
          height: 100%;
        body #container .wrapper .img {
          border-radius: 0.7rem;
          overflow: hidden;
        body #container .wrapper .content_wrapper {
          border-radius: 0.8rem;
          overflow: hidden;
          background-color: ☐white;
        .hearder_wrapper{
          display: flex;
          justify-content: space-between;
          margin-top: 5px;
        button{
          padding: 5px 20px 5px 20px;
          color: ■red;
          border: 2px solid ■red;
```





congue libero vel molestie consequat. Sed ac lectus lacus. Mauris mollis diam quam, sagittis placerat metus fermentum dapibus. Phasellus blandit at dolor vitae auctor. Nullam placerat, velit a convallis imperdiet, urna libero

Ex3: Counter build a number counter app with Class/Object concept and local storage

```
"P4 > 🥫 IndexEx3TP04.html > �� html > �� body > �� script > ધ Counter > �� reset
     <!DOCTYPE html>
     <html lang="en">
         <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>Counter</title>
         <link rel="preconnect" href="https://fonts.googleapis.com">
         <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
         k href="https://fonts.googleapis.com/css2?family=Oswald:wght@200;300;400&family=Roboto:wght@100;500&display=swap" rel="stylesheet">
                  margin: 0px;
                  padding: 0px;
                  font-family: 'Roboto', sans-serif;
             .wrapper{
                 align-items: center;
                 justify-content: center;
                 margin: auto;
                 margin-top: 50px;
                 text-align: center;
                 border: 1px solid □black;
                 height: 600px;
                 width: 600px;
                 background-color: □aliceblue;
              .wrapper h1{
                 color: □#241e4a;
              #counter{
                 margin: 30px;
                 font-size: 80px;
                 color: □#158704;
                 border: 1px solid □black;
                 border-radius: 3px;
                 height: 25px;
                 padding-left: 10px;
                  nodding might: 10e
```

```
TP4 > 🥫 IndexEx3TP04.html > 🔗 html > 😭 body > 😭 script > ધ Counter > 🕀 reset
                   padding-left: 10px;
                   padding-right: 10px;
                   margin: 5px;
                   background-color: ■aliceblue;
                   background-color: □black;
                   color: white;
          <div class="wrapper">
                   <h1>Counter</h1>
                   <div id="counter"></div>
                   <button type="button" id="decrease">DECREASE</button>
                   <button type="button" id="reset">RESET</button>
                   <button type="button" id="increase">INCREASE</button>
               class Counter{
              number = 0;
               constructor(){
                   document.getElementById("counter").innerHTML = localStorage.getItem("counter");
              decrease(){
                   return this.number;
               increase(){
               reset(){
                   return this.number;
          var counter = new Counter();
```

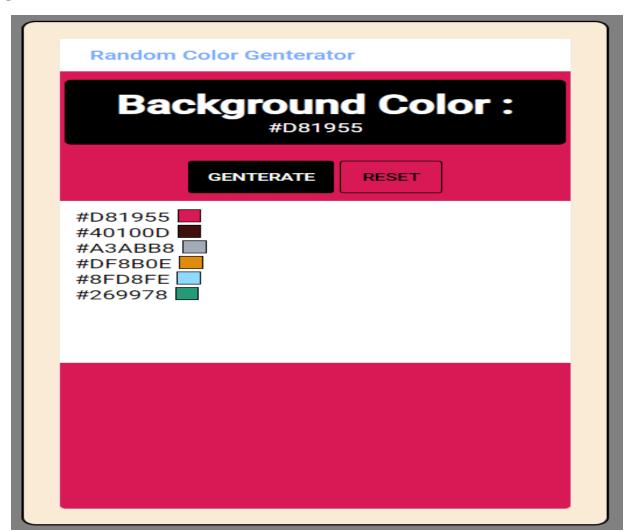


Ex4: Random color generator build a color generator app with Class/Object concept with local storage.

```
TP4 > 🥫 IndexEx4TP04.html > �� html > �� head > �� style > ધ .container
      <html lang="en">
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Random Color Genterator</title>
          <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
           <link href="https://fonts.googleapis.com/css2?family=Oswald:wght@200;300;400&family=Roboto:wght@100;400;500&display=swap" rel="stylesheet">
                     margin: 0px;
                     padding: 0px;
                    justify-content: center;
                    background-color: ■gray;
                .container{
width: 400px;
                    margin: 60px;
                    border: 2px solid □black;
                    background-color: ■antiquewhite;
                   margin: auto;
                   border: 1px solid ■#ebebeb;
                    background-color: #73adff;
                    color: ■#73adff;
                    height: 40px;
                    padding-left: 20px;
background-color: ■white;
```

```
TP4 > 🥫 IndexEx4TP04.html > 🔗 html > 😭 head > 😭 style > ધ .container
                  padding-left: 20px;
                  background-color: ☐white;
                  align-items: center;
                  margin-bottom: 10px;
              .background{
                  flex-direction: column;
                  align-items: center;
                  justify-content: center;
                  background-color: □black;
                  color: ☐white;
                  margin: 3px;
                  border-radius: 5px;
                  height: 80px;
                  margin-top: 20px;
                  font-size: medium;
                  height: 50px;
                  width: 100px;
                  height: 40px;
                  font-weight: 500;
                  color: ■white;
                  background-color: ■black;
                  border: 1px solid □black;
                  border-radius: 3px;
              #reset{
                  width: 70px;
                  background-color: unset;
                  color: □black;
              .display{
                  width: 330px;
                  text-align: left;
                  padding: 10px;
                  background-color: white;
                  height: 180px;
                  overflow: auto;
```

```
.square{
            width: 15px;
            height: 15px;
            margin-left: 5px;
            border: 1px solid □black;
<body onload="color.displayColor()">
    <div class="wrapper" id="wrapper">
        <div class="header">Random Color Genterator</div>
        <div class="background">
            <h1>Background Color :</h1>
            <div id="code">#112312</div>
       <div class="button">
            <button id="generate" onclick="color.generate()">GENTERATE</button>
            <button id="reset" onclick="color.reset()">RESET</button>
       <div class="display" id="display"></div>
       class Color {
       colorType = "HEX";
            this.colorType = type;
            this.getRecords();
            let color = this.getRandomNumber();
            this.records.push(color);
            localStorage.setItem('colorGen', JSON.stringify(this.records));
```



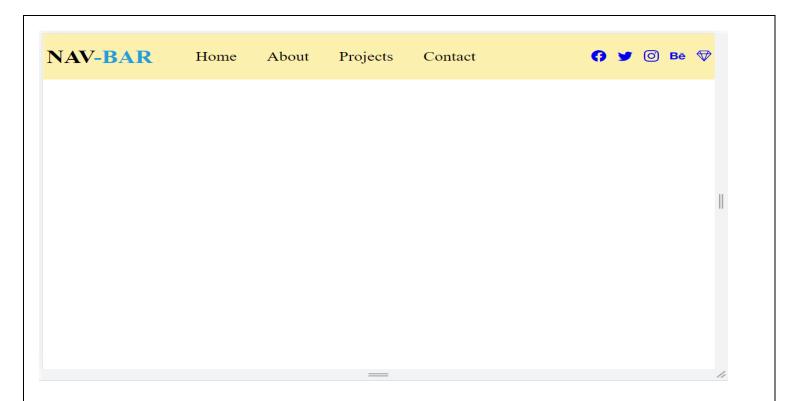
Ex5: Responsive Navigation Bar build a navigation bar to support both wide and mobile screen

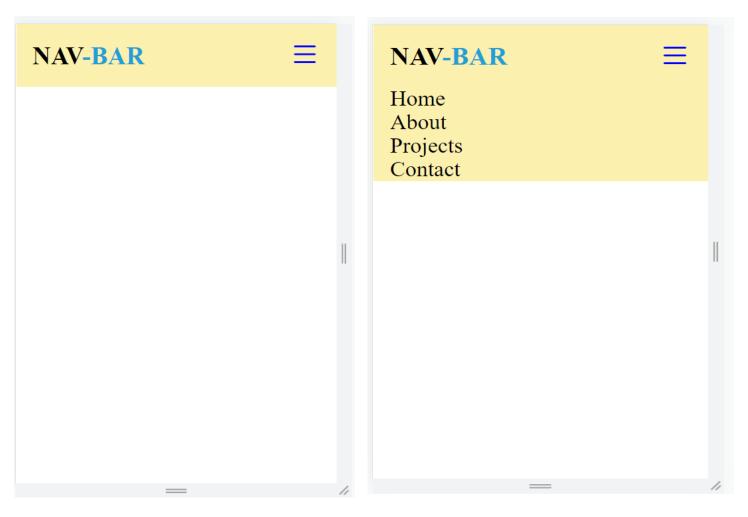
```
TP4 > 5 IndexEx5.html > ♦ html > ♦ body > ♦ script
      <!DOCTYPE html>
      <html lang="en">
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Navbar</title>
          <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.7.2/font/bootstrap-icons.css">
                  padding: 0;
                  margin: 0;
                  box-sizing: border-box;
              .container{
                  height: 80px;
                  justify-content: space-around;
                  position: relative;
                  align-items: center;
                  z-index: 5;
                  background-color: ☐ rgb(252, 240, 174);
              .logo h2{
                  font-size: 2rem;
                  color: □black;
              .logo h2 span{
                  color: ■rgb(33, 158, 216);
                  display: flex;
                  margin-left: 40px;
                  list-style-type: none;
                  text-decoration: none;
                  font-size: 1.4rem;
                  color: ■black;
               .nav list ul li a:hover{
                   handan hattami Inv calid | hlacki
```

```
TP4 > 
☐ IndexEx5.html > 
☐ html > 
☐ body > 
☐ script
                                                                        TP4 > 5 IndexEx5.html > 6 html > 6 head > 6 style > 4 .hide_list
                                                                                        .hide_list ul li a:hover{
               .nav list ul li a:hover{
                                                                                           color: ■red;
                   border-bottom: 2px solid □black;
                                                                                        .hide list ul li:hover{
                   margin-left: 130px;
                                                                                           background-color: ☐ rgb(255, 248, 149);
               .nav icon ul{
                   display: flex;
                                                                                       .hide list ul li a{
                                                                                            text-decoration: none;
                                                                                            font-size: 1.7rem;
                   margin-left: 15px;
                                                                                           color: \square \operatorname{rgb}(0, 0, 0);
                   list-style-type: none;
                                                                                       @keyframes rotateBar {
                   text-decoration: none;
                                                                                            from{
                   font-size: 20px;
                                                                                                transform: translateY(-120px);
                                                                                                z-index: -2;
               .btn button{
                   font-size: 40px;
                   display: none;
                                                                                                transform: translateY(0px);
                   background-color: ☐ rgb(252, 240, 174);
                   border: none;
                   color: □blue;
                   cursor: pointer;
                                                                                       @media screen and (max-width: 678px){
                                                                                            .nav icon{
               .top{
                                                                                                display: none;
                   animation-name: rotateTop;
                   animation-duration: 1s;
                                                                                            .nav_list{
                   display: none;
               .hide list{
                   display: none;
                                                                                                display: flex;
                   animation-name: rotateBar;
                   animation-duration: 1s;
                                                                                            .container{
                                                                                                justify-content: space-between;
                                                                                                padding: 0px 20px;
               .hide list ul li{
                   list-style-type: none;
                   width: 100%;
                                                                                       #my btn hide{
                   padding-left: 20px;
                                                                                            position: absolute;
                   background-color: □rgb(252, 240, 174);
                                                                                            right: 20px;
                                                                                            font-size: 30px;
               .hide_list ul li a:hover{
```

a

```
TP4 > 🥫 IndexEx5.html > 🔗 html > 🚱 head > 😭 style > 😭 .hide list
                                                                               TP4 > 🥫 IndexEx5.html > �� html > �� body > �� script
                   right: 20px;
                                                                                            <div class="nav icon">
                   font-size: 30px;
                   border: none;
                                                                                                   <a href="#facebook"><i class="bi bi-facebook"></i></o>
                   color: □blue;
                   margin-top: -63px;
                                                                                                   <a href="#twitter"><i class="bi bi-twitter"></i></o>
                   z-index: 8;
                   font-size: 40px;
                                                                                                   <a href="#instagram"><i class="bi bi-instagram"></i></i>
                                                                                                   <a href="#behance"><i class="bi bi-behance"></i></o>
               @media screen and (min-width: 700px){
                   .hide list{
                                                                                                   <a href="#gem"><i class="bi bi-gem"></i>
              @keyframes rotateTop {
                                                                                            <div class="hide list top">
                       transform: translateY(0px);
                       z-index: -2;
                                                                                                   <a href="#home">Home</a> <button id="my_btn_hide"><i class="bi bi-list"></i></i>
                                                                                                   <a href="#about">About</a>
                   to{
                                                                                                   <a href="#project">Projects</a>
                       transform: translateY(-120px);
                                                                                                   <a href="#contact">Contact</a>
                                                                                            const btn = document.getElementById('nav_btn');
          <div class="container">
                                                                                            const show = document.querySelector('.hide list');
               <div class="logo">
                                                                                            const toTOp = document.getElementById('my btn hide');
                   <h2>NAV<span>-BAR</span></h2>
                                                                                            const showTop = document.querySelector('.top');
                <div class="btn">
                                                                                            btn.addEventListener("click", function(){
                   <button id="nav_btn"><i class="bi bi-list"></i></i>
                                                                                                show.style.display= "block";
               <div class="nav_list">
                                                                                            toTOp.addEventListener("click", function(){
                       <a href="#home">Home</a>
                       <a href="#about">About</a>
                                                                                                showTop.style.display = "none";
               /div class="nav icon"\
```





Ex6: Side Bar Build an app with a slide bar

```
TP4 > 🧧 IndexEx6TP04.html > 🔗 html > 😭 head > 😭 style > {} @media screen and (min-width: 676px) > 😭 .sidebar
      <!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8" />
          <meta name="viewport" content="width=device-width, initial-scale=1.0" />
          <title>Sidebar</title>
          rel="stylesheet"
            href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.14.0/css/all.min.css"
              body {
                 line-height: 1.5;
                 font-size: 0.875rem;
                background-color: 
cadetblue;

                list-style-type: none;
              a {
                 text-decoration: none;
              .sidebar-toggle {
                right: 3rem;
                 font-size: 2rem;
                 background: transparent;
                 border-color: transparent;
                 cursor: pointer;
                 animation: bounce 2s ease-in-out infinite;
               .sidebar-header {
                display: flex;
                 justify-content: space-between;
                align-items: center;
                 padding: 1rem 1.5rem;
               .close-btn {
                 font-size: 1.75rem;
                 background: transparent;
```

```
TP4 > 5 IndexEx6TP04.html > ♦ html > ♦ head > ♦ style > {} @media
                 background: transparent;
                 border-color: transparent;
                 color: ■red;
                 cursor: pointer;
               .close-btn:hover {
                 transform: rotate(360deg);
               .logo {
                 justify-self: center;
                 height: 40px;
                 isplay: block;
                 font-size: 1.5rem;
                 text-transform: capitalize;
                 padding: 1rem 1.5rem;
                 color: ■gray;
                 padding-left: 1.75rem;
               .social-icons {
                 justify-self: center;
                 display: flex;
                 padding-bottom: 2rem;
               .social-icons a {
                 font-size: 1.5rem;
                 margin: 0 0.5rem;
               .sidebar {
                 position: fixed;
                 top: 0;
                 left: 0;
                 width: 100%;
                 height: 100%;
                 display: grid;
                 grid-template-rows: auto 1fr auto;
                 row-gap: 1rem;
                 transform: translate(-100%);
                 background-color: bisque;
               .show-sidebar {
                 transform: translate(0);
```

```
TP4 > 🧧 IndexEx6TP04.html > 🔗 html > 🛠 body > 🛠 aside.sidebar > 🛠 ul.links
              .show-sidebar {
                transform: translate(0);
              @media screen and (min-width: 676px) {
                .sidebar {
                  width: 400px;
         </style>
          <button class="sidebar-toggle">
            <i class="fas fa-bars"></i></i></or>
          </button>
          <aside class="sidebar">
            <div class="sidebar-header">
              <h3>SIDE-BAR</h3>
              <button class="close-btn">
                <i class="fas fa-times"></i></i></or>
              </button>
            </div>
            <a href="#">home</a>
                <a href="#">about</a>
              <a href="#">projects</a>
              <a href="#">contact</a>
              122
            <a href="https://www.twitter.com">
                  <i class="fab fa-facebook"></i></i></or>
                </a>
              <a href="https://www.twitter.com">
                 <i class="fab fa-twitter"></i></i></or>
```

```
TP4 > 😈 IndexEx6TP04.html > 🛠 html > 🛠 body > 🛠 aside.sidebar > 🛠 ul.links
                  <i class="fab fa-twitter"></i></i></or>
                </a>
              <a href="https://www.twitter.com">
                 <i class="fab fa-behance"></i></i>
              <a href="https://www.twitter.com">
                  <i class="fab fa-linkedin"></i></i>
                </a>
              <a href="https://www.twitter.com">
                 <i class="fab fa-sketch"></i></i>
                </a>
              </aside>
            const toggleBtn = document.querySelector(".sidebar-toggle");
            const closeBtn = document.querySelector(".close-btn");
            const sidebar = document.querySelector(".sidebar");
            toggleBtn.addEventListener("click", function () {
            sidebar.classList.toggle("show-sidebar");
            });
            closeBtn.addEventListener("click", function () {
            sidebar.classList.remove("show-sidebar");
        </body>
```

Output: SIDE-BAR Home About Projects Contact **(7) У** Bē **I (7) (7)**