ITA LAB 1
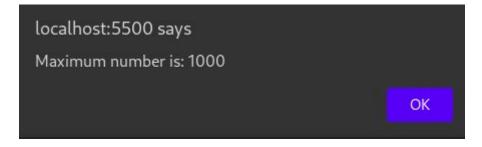
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1.Write a program to find maximum of 3 no's using math object (Use prompt box for each input).

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/water.css@2/out/light.css">
    <title>Q1</title>
</head>

<body>
    <script>
        let n1 = prompt("Enter First Number: ", 0);
        let n2 = prompt("Enter Second Number: ", 0);
        let n3 = prompt("Enter Third Number: ", 0);

        let maxNo = Math.max(Number(n1), Number(n2), Number(n3));
        alert(`Maximum number is: ${maxNo}`);
    </script>
</body>

</html>
```
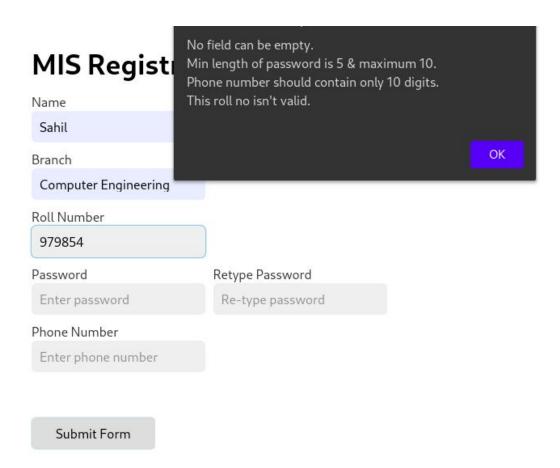
localhost:5500 says

Maximum number is: 1000

OK

2. Write a JavaScript to validate student MIS registration form for SVNIT students. If a blank field is left it should display an error message.

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/water.css@2/out/light.css"
    />
    <title>Q2</title>
  </head>

  <body>
    <h1>MIS Registration Form</h1>
    <label>
      Name
      <input type="text" placeholder="Enter name" id="name" required />
    </label>
    <br />
    <label>
      Branch
      <input type="text" placeholder="Enter branch" id="branch" required
/>
    </label>
    <br />
    <label>
      Roll Number
      <input type="text" placeholder="Enter roll no" id="roll" required
/>
    </label>
    <br />
    <label>
      Password
      <input
        type="password"
        placeholder="Enter password"
        minlength="5"
        maxlength="10"
        id="password"
        required
      />
```

```html
        </label>
        <label>
          Retype Password
          <input
            type="password"
            placeholder="Re-type password"
            minlength="5"
            maxlength="10"
            id="re-password"
            required
          />
        </label>
        <br />
        <label>
          Phone Number
          <input
            type="text"
            placeholder="Enter phone number"
            id="phone"
            required
          /><br /><br />
        </label>
        <br />
        <button type="submit" id="submit">Submit Form</button>
        <script>
          let btn = document.querySelector("#submit");
          let err = "";

          btn.addEventListener("click", () => {
            console.log(btn);
            let name = document.querySelector("#name").value;
            let branch = document.querySelector("#branch").value;
            let roll = document.querySelector("#roll").value;
            let pass = document.querySelector("#password").value;
            let rePass = document.querySelector("#re-password").value;
            let number = document.querySelector("#phone").value;

            if (
              name === "" ||
              branch === "" ||
              roll === "" ||
              pass === "" ||
              rePass === "" ||
              number === ""
            ) {
              err += "No field can be empty.\n";
```

```
        }

        if (pass.length >= 5 && pass.length <= 10) {
          if (pass !== rePass) {
            err += "Password doesn't match. Re-type it.\n";
          }
        } else {
          err += "Min length of password is 5 & maximum 10.\n";
        }

        if (number.length !== 10) {
          err += "Phone number should contain only 10 digits.\n";
        }

        if (roll.search(/[U]\d{2}[A-Z]{2}\d{3}/i) === -1) {
          err += "This roll no isn't valid.\n";
        }

        if (err != "") {
          alert(err);
        } else {
          alert("Registration successful\n");
          location.reload();
        }
      });
    </script>
  </body>
</html>
```
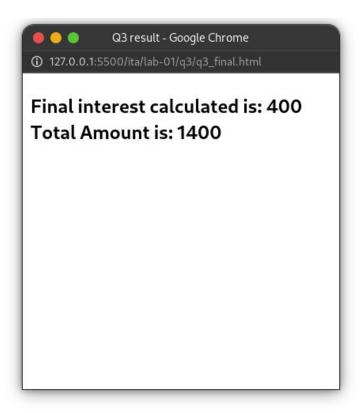
MIS Regist[...]

Name

Sahil

Branch

Computer Engineering

Roll Number

979854

Password

Enter password

Retype Password

Re-type password

Phone Number

Enter phone number

Submit Form

No field can be empty.
Min length of password is 5 & maximum 10.
Phone number should contain only 10 digits.
This roll no isn't valid.

OK

3.Make a Simple Interest Calculator using JavaScript. The result calculated should be displayed in a new window.

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/water.css@2/out/light.css"
    />
    <title>Q3</title>
  </head>

  <body>
    <h3>Simple Interest Calculator</h3>
    <br />
```

```html
    <label for="principal"
      >Principal Value
      <input
        type="number"
        id="principal"
        placeholder="Enter principal value"
        required
      />
    </label>
    <br />
    <label for="rate">
      Rate of Interest
      <input
        type="number"
        id="rate"
        placeholder="Enter rate of interest"
        required
      />
    </label>
    <br />
    <label for="year">
      Number of Years
      <input type="number" id="year" placeholder="Enter number of years"
/>
    </label>
    <br />
    <button type="submit" id="submit">Calculate Interest</button>

    <script>
      let btn = document.querySelector("#submit");
      let err = "";
      btn.addEventListener("click", () => {
        let principal = document.querySelector("#principal").value;
        let rate = document.querySelector("#rate").value;
        let years = document.querySelector("#year").value;

        let interest = (Number(principal) * Number(rate) *
Number(years)) / 100;
        localStorage.setItem("interest", interest);
        localStorage.setItem("total", interest + Number(principal));
        window.open("./q3_final.html", "MsgWindow",
"width=400,height=400");
      });
    </script>
  </body>
</html>
```

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/water.css@2/out/light.css"
    />
    <title>Q3 result</title>
  </head>
  <body>
    <h2 id="final"></h2>
    <script>
      let content = document.querySelector("#final");
      let interest = localStorage.getItem("interest");
      let total = localStorage.getItem("total");
      content.innerHTML += `Final interest calculated is: ${interest}
<br>Total Amount is: ${total}`;
    </script>
  </body>
</html>
```

Simple Interest Calculator

Principal Value

1000

Rate of Interest

8

Number of Years

5

Calculate Interest

● ● ●   Q3 result - Google Chrome

ⓘ 127.0.0.1:5500/ita/lab-01/q3/q3_final.html

Final interest calculated is: 400
Total Amount is: 1400

4.Create home page for SVNIT college displaying amenities of college in an automatic carousel using JavaScript.

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <link rel="stylesheet" href="./style.css" />
    <title>SVNIT, Surat</title>
  </head>

  <body>
    <nav class="navbar">
      <div class="container">
        <div class="navbar-header">
          <button class="navbar-toggler" data-toggle="open-navbar1">
            <span></span>
            <span></span>
            <span></span>
          </button>
          <a href="#">
```

```html
        <h4>SVNIT<span>Surat</span></h4>
      </a>
    </div>

    <div class="navbar-menu" id="open-navbar1">
      <ul class="navbar-nav">
        <li><a href="#">Home</a></li>
        <li class="navbar-dropdown">
          <a
            href="#"
            class="dropdown-toggler"
            data-dropdown="my-dropdown-id"
          >
            Branch <i class="fa fa-angle-down"></i>
          </a>
          <ul class="dropdown" id="my-dropdown-id">
            <li><a href="#">Computer Engineering</a></li>
            <li><a href="#">Mechanical Engineering</a></li>
            <li><a href="#">Electrical Engineering</a></li>
            <li><a href="#">Electronics Engineering</a></li>
            <li><a href="#">Civil Engineering</a></li>
            <li class="separator"></li>
            <li><a href="#">Physics</a></li>
            <li><a href="#">Mathematics</a></li>
            <li><a href="#">Chemistry</a></li>
          </ul>
        </li>
        <li><a href="#">About Us</a></li>
        <li><a href="#">Contact</a></li>
        <li><a href="#">SignIn</a></li>
      </ul>
    </div>
  </div>
</nav>
<br /><br />
<div class="slideshow-container">
  <div class="slides-individual fade">
    <img
      src="./assembly.jpg"
      style="width: 100%; height: 80vh; border-radius: 10%"
    />
    <div class="text">Assembly SVNIT</div>
  </div>

  <div class="slides-individual fade">
    <img
```

```html
          src="./complex.png"
          style="width: 100%; height: 80vh; border-radius: 10%"
        />
        <div class="text">CRC Complex Building</div>
      </div>

      <div class="slides-individual fade">
        <img
          src="./gym.jpeg"
          style="width: 100%; height: 80vh; border-radius: 10%"
        />
        <div class="text">Gym SVNIT</div>
      </div>
    </div>
    <br />

    <div style="text-align: center">
      <span class="index"></span>
      <span class="index"></span>
      <span class="index"></span>
    </div>

    <script>
      var slideIndex = 0;
      showSlides();

      function showSlides() {
        var i;
        var slides =
document.getElementsByClassName("slides-individual");
        var indexs = document.getElementsByClassName("index");
        for (i = 0; i < slides.length; i++) {
          slides[i].style.display = "none";
        }
        slideIndex++;
        if (slideIndex > slides.length) {
          slideIndex = 1;
        }
        for (i = 0; i < indexs.length; i++) {
          indexs[i].className = indexs[i].className.replace(" active",
"");
        }
        slides[slideIndex - 1].style.display = "block";
        indexs[slideIndex - 1].className += " active";
        setTimeout(showSlides, 2000); // Change image every 2 seconds
      }
```

```javascript
    let dropdowns = document.querySelectorAll(".navbar
.dropdown-toggler");
    let dropdownIsOpen = false;

    // Handle dropdown menues
    if (dropdowns.length) {
      dropdowns.forEach((dropdown) => {
        dropdown.addEventListener("click", (event) => {
          let target = document.querySelector(
            "#" + event.target.dataset.dropdown
          );

          if (target) {
            if (target.classList.contains("show")) {
              target.classList.remove("show");
              dropdownIsOpen = false;
            } else {
              target.classList.add("show");
              dropdownIsOpen = true;
            }
          }
        });
      });
    }

    // Handle closing dropdowns if a user clicked the body
    window.addEventListener("mouseup", (event) => {
      if (dropdownIsOpen) {
        dropdowns.forEach((dropdownButton) => {
          let dropdown = document.querySelector(
            "#" + dropdownButton.dataset.dropdown
          );
          let targetIsDropdown = dropdown == event.target;

          if (dropdownButton == event.target) {
            return;
          }

          if (!targetIsDropdown && !dropdown.contains(event.target)) {
            dropdown.classList.remove("show");
          }
        });
      }
    });
```

```javascript
      // Open links in mobiles
      function handleSmallScreens() {
        document
          .querySelector(".navbar-toggler")
          .addEventListener("click", () => {
            let navbarMenu = document.querySelector(".navbar-menu");

            if (navbarMenu.style.display === "flex") {
              navbarMenu.style.display = "none";
              return;
            }

            navbarMenu.style.display = "flex";
          });
      }

      handleSmallScreens();
    </script>
  </body>
</html>
```

```css
@import
url("https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap");
* {
  box-sizing: border-box;
  padding: 0;
  margin: 0;
}

body {
  font-family: "Roboto", sans-serif;
  font-size: 0.925rem;
}

a {
  text-decoration: none;
}

.container {
  width: 1170px;
  position: relative;
  margin-left: auto;
  margin-right: auto;
```

```css
  padding-left: 15px;
  padding-right: 15px;
}

.navbar,
.navbar .container {
  width: 100%;
  display: flex;
  flex-wrap: wrap;
  align-items: center;
  justify-content: space-between;
}
@media (max-width: 768px) {
  .navbar,
  .navbar .container {
    display: block;
  }
}

.navbar {
  padding: 1.15rem 1rem;
  box-shadow: 0 0.5rem 1rem rgba(0, 0, 0, 0.035);
  background-color: #fff;
  /*
  |----------------------------------
  | Start navbar Logo or brand etc..
  |----------------------------------
  */
  /*
  |----------------------------------
  | Start navbar menu
  |----------------------------------
  */
}
@media (min-width: 576px) {
  .navbar .container {
    max-width: 540px;
  }
}
@media (min-width: 768px) {
  .navbar .container {
    max-width: 720px;
  }
}
@media (min-width: 992px) {
  .navbar .container {
```

```css
      max-width: 960px;
  }
}
@media (min-width: 1200px) {
  .navbar .container {
    max-width: 1140px;
  }
}
.navbar .navbar-header {
  display: flex;
  align-items: center;
}
@media (max-width: 768px) {
  .navbar .navbar-header {
    width: 100%;
    display: flex;
    align-items: center;
    justify-content: space-between;
    flex-direction: row-reverse;
  }
}
.navbar .navbar-header .navbar-toggler {
  border-radius: 5px;
  background-color: transparent;
  cursor: pointer;
  border: none;
  display: none;
  outline: none;
}
@media (max-width: 768px) {
  .navbar .navbar-header .navbar-toggler {
    display: block;
  }
}
.navbar .navbar-header .navbar-toggler span {
  height: 2px;
  width: 22px;
  background-color: #929aad;
  display: block;
}
.navbar .navbar-header .navbar-toggler span:not(:last-child) {
  margin-bottom: 0.2rem;
}
.navbar .navbar-header > a {
  font-weight: 500;
  color: #3c4250;
```

```css
}
.navbar .navbar-menu {
  display: flex;
  flex-basis: auto;
  flex-grow: 1;
  align-items: center;
}
@media (max-width: 768px) {
  .navbar .navbar-menu {
    display: none;
    text-align: center;
  }
}
.navbar .navbar-menu .navbar-nav {
  margin-left: auto;
  flex-direction: row;
  display: flex;
  padding-left: 0;
  margin-bottom: 0;
  list-style: none;
}
@media (max-width: 768px) {
  .navbar .navbar-menu .navbar-nav {
    width: 100%;
    display: block;
    border-top: 1px solid #eee;
    margin-top: 1rem;
  }
}
.navbar .navbar-menu .navbar-nav > li > a {
  color: #3c4250;
  text-decoration: none;
  display: inline-block;
  padding: 0.5rem 1rem;
}
.navbar .navbar-menu .navbar-nav > li > a:hover {
  color: #66f;
}
@media (max-width: 768px) {
  .navbar .navbar-menu .navbar-nav > li > a {
    border-bottom: 1px solid #eee;
  }
}
.navbar .navbar-menu .navbar-nav > li.active a {
  color: #66f;
}
```

```css
.navbar .navbar-menu .navbar-nav .navbar-dropdown .dropdown {
  list-style: none;
  position: absolute;
  top: 150%;
  left: 0;
  background-color: #fff;
  padding: 0.5rem 0;
  min-width: 160px;
  width: auto;
  white-space: nowrap;
  box-shadow: 0 0.5rem 1rem rgba(0, 0, 0, 0.1);
  z-index: 99999;
  border-radius: 0.75rem;
  display: none;
}
@media (max-width: 768px) {
  .navbar .navbar-menu .navbar-nav .navbar-dropdown .dropdown {
    position: relative;
    box-shadow: none;
  }
}
.navbar .navbar-menu .navbar-nav .navbar-dropdown .dropdown li a {
  color: #3c4250;
  padding: 0.25rem 1rem;
  display: block;
}
.navbar .navbar-menu .navbar-nav .navbar-dropdown .dropdown.show {
  display: block !important;
}
.navbar .navbar-menu .navbar-nav .dropdown > .separator {
  height: 1px;
  width: 100%;
  margin: 9px 0;
  background-color: #eee;
}
.navbar .navbar-dropdown {
  position: relative;
}

.navbar .navbar-header > a span {
  color: #66f;
}

.navbar .navbar-header h4 {
  font-weight: 500;
  font-size: 1.25rem;
```

```css
}
@media (max-width: 768px) {
  .navbar .navbar-header h4 {
    font-size: 1.05rem;
  }
}

* {
  box-sizing: border-box;
}

body {
  font-family: Verdana, sans-serif;
}

.slides-individual {
  display: none;
}

img {
  vertical-align: middle;
}

/* Slideshow container */
.slideshow-container {
  max-width: 1000px;
  position: relative;
  margin: auto;
}

/* Caption text */
.text {
  color: #f2f2f2;
  font-size: 15px;
  padding: 8px 12px;
  position: absolute;
  bottom: 8px;
  width: 100%;
  text-align: center;
}

/* Number text (1/3 etc) */
.numbertext {
  color: #f2f2f2;
  font-size: 12px;
  padding: 8px 12px;
```

```css
  position: absolute;
  top: 0;
}

/* The indexs/bullets/indicators */
.index {
  height: 15px;
  width: 15px;
  margin: 0 2px;
  background-color: #bbb;
  border-radius: 50%;
  display: inline-block;
  transition: background-color 0.6s ease;
}

.active {
  background-color: #717171;
}

/* Fading animation */
.fade {
  -webkit-animation-name: fade;
  -webkit-animation-duration: 1.5s;
  animation-name: fade;
  animation-duration: 1.5s;
}

@-webkit-keyframes fade {
  from {
    opacity: 0.4;
  }

  to {
    opacity: 1;
  }
}

@keyframes fade {
  from {
    opacity: 0.4;
  }

  to {
    opacity: 1;
  }
}
```

```
/* On smaller screens, decrease text size */
@media only screen and (max-width: 300px) {
  .text {
    font-size: 11px;
  }
}
```

SVNITSurat   Home   Branch   About Us   Contact   SignIn

● ● ●

5. Create one form for taking input via checkbox from user for receiving updates via
newsletter for events at SVNIT. Only if user selects to opt for newsletter, display options
using checkbox for selecting from events such as annual fest, drishti events, student
chapters, STTP, summer schools, talks, conferences, workshops, courses through
NPTEL. Display the selected choices in a new tab.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
```

```html
initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/water.css@2/out/dark.css"
    />
    <title>Q5</title>
    <style>
      div.container {
        display: none;
      }

      ul {
        list-style: none;
      }
      label {
        font-size: 18px;
        font-family: "Lucida Sans", "Lucida Sans Regular", "Lucida
Grande",
          "Lucida Sans Unicode", Geneva, Verdana, sans-serif;
        font-weight: 200;
      }
    </style>
  </head>

  <body>
    <h2>Subscribe to SVNIT Newsletter</h2>
    <label for="event">I want to subscribe!</label>
    <input type="checkbox" id="event" />
    <div class="container">
      <h2>List of events</h2>
      <ul class="events">
        <li>
          <label for="drishti">Drishti events</label>
          <input type="checkbox" id="drishti" />
        </li>
        <li>
          <label for="chapters">Student chapters</label>
          <input type="checkbox" id="chapters" />
        </li>
        <li>
          <label for="sttp">STTP</label>
          <input type="checkbox" id="sttp" />
        </li>
        <li>
          <label for="summer">Summer schools</label>
          <input type="checkbox" id="summer" />
```

```html
      </li>
      <li>
        <label for="talks">Talks</label>
        <input type="checkbox" id="talks" />
      </li>
      <li>
        <label for="conference">Conferences</label>
        <input type="checkbox" id="conference" />
      </li>
      <li>
        <label for="workshop">Workshops</label>
        <input type="checkbox" id="workshop" />
      </li>
      <li>
        <label for="nptel">NPTEL</label>
        <input type="checkbox" id="nptel" />
      </li>
    </ul>
    <button type="submit" id="submit">Yes, I want these
events!</button>
  </div>
  <script src="./script5.js"></script>
 </body>
</html>
```

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/water.css@2/out/dark.css">
    <title>Q5 Final</title>
    <style>
        ul {
            list-style: none;

        }

        label {
            font-size: 18px;
            font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida
Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;
```

```html
            font-weight: 200;
        }
    </style>
</head>

<body>
    <div class="container">
        <h2>List of events</h2>
        <ul class="events">
        </ul>
    </div>
    <script>
        let list = document.querySelector("ul.events");
        list.innerHTML = '';
        let events = localStorage.getItem("events");
        if (events.length === 0) {
            list.innerHTML += 'No items in the list';
        } else {
            let arr = events.split(',');
            console.log(arr);
            Array.from(arr).forEach((elm) => {
                let item = document.createElement("li");
                let liContent = `${elm}`;
                item.innerHTML = liContent;
                list.appendChild(item);
            });
        }
    </script>
</body>

</html>
```

```javascript
let subscribe = document.querySelector("#event");
let list = document.querySelector("div.container");
let btn = document.querySelector("#submit");

let drishti = document.querySelector("#drishti");
let chapters = document.querySelector("#chapters");
let sttp = document.querySelector("#sttp");
let summer = document.querySelector("#summer");
let talks = document.querySelector("#talks");
let conference = document.querySelector("#conference");
let workshop = document.querySelector("#workshop");
let nptel = document.querySelector("#nptel");
```

```javascript
let selectedEvents = [];

subscribe.addEventListener("click", () => {
  if (subscribe.checked) {
    list.style.display = "block";
  } else {
    list.style.display = "none";
  }
});

drishti.addEventListener("click", () => {
  if (drishti.checked) {
    selectedEvents.push("Drishti");
  } else {
    if (selectedEvents.indexOf("Drishti") != -1) {
      let idx = selectedEvents.indexOf("Drishti");
      selectedEvents.splice(idx, 1);
    }
  }
});

chapters.addEventListener("click", () => {
  if (chapters.checked) {
    selectedEvents.push("SVNIT Chapters");
  } else {
    if (selectedEvents.indexOf("SVNIT Chapters") != -1) {
      let idx = selectedEvents.indexOf("SVNIT Chapters");
      selectedEvents.splice(idx, 1);
    }
  }
});

sttp.addEventListener("click", () => {
  if (sttp.checked) {
    selectedEvents.push("STTP");
  } else {
    if (selectedEvents.indexOf("STTP") != -1) {
      let idx = selectedEvents.indexOf("STTP");
      selectedEvents.splice(idx, 1);
    }
  }
});

summer.addEventListener("click", () => {
  if (summer.checked) {
    selectedEvents.push("Summer School");
```

```javascript
    } else {
      if (selectedEvents.indexOf("Summer School") != -1) {
        let idx = selectedEvents.indexOf("Summer School");
        selectedEvents.splice(idx, 1);
      }
    }
});

talks.addEventListener("click", () => {
  if (talks.checked) {
    selectedEvents.push("Talks");
  } else {
    if (selectedEvents.indexOf("Talks") != -1) {
      let idx = selectedEvents.indexOf("Talks");
      selectedEvents.splice(idx, 1);
    }
  }
});

workshop.addEventListener("click", () => {
  if (workshop.checked) {
    selectedEvents.push("Workshops");
  } else {
    if (selectedEvents.indexOf("Workshops") != -1) {
      let idx = selectedEvents.indexOf("Workshops");
      selectedEvents.splice(idx, 1);
    }
  }
});

conference.addEventListener("click", () => {
  if (conference.checked) {
    selectedEvents.push("Conferences");
  } else {
    if (selectedEvents.indexOf("Conferences") != -1) {
      let idx = selectedEvents.indexOf("Conferences");
      selectedEvents.splice(idx, 1);
    }
  }
});

nptel.addEventListener("click", () => {
  if (nptel.checked) {
    selectedEvents.push("NPTEL Courses");
  } else {
    if (selectedEvents.indexOf("NPTEL Courses") != -1) {
```

```javascript
      let idx = selectedEvents.indexOf("NPTEL Courses");
      selectedEvents.splice(idx, 1);
    }
  }
});

btn.addEventListener("click", () => {
  localStorage.setItem("events", selectedEvents);
  open("./q5_final.html");
});
```

Subscribe to SVNIT Newsletter

I want to subscribe! ☑

List of events

Drishti events ☑
Student chapters ☑
STTP ☐
Summer schools ☐
Talks ☐
Conferences ☑
Workshops ☐
NPTEL ☐

Yes, I want these events!

List of events

Drishti
SVNIT Chapters
Conferences