

# **SACRED HEART COLLEGE**

## **(AUTONOMOUS)**



## **B.Sc. COMPUTER APPLICATIONS**

### **PRACTICAL RECORD**

*Name* \_\_\_\_\_

*Class* \_\_\_\_\_ *Roll No.* \_\_\_\_\_

*Reg. No.* \_\_\_\_\_ *Year* \_\_\_\_\_

*Certified that this is a bonafide record of practical work done in  
\_\_\_\_\_ of B.Sc. Computer Application Course during the  
period \_\_\_\_\_.*

*(Office Seal)*

*Lecture in charge*

*Submitted for the University Practical Examination held on \_\_\_\_\_ 20\_\_\_\_*

*Date:*

*External Examiner*

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# 1 Simple Html Page

## 1.1 Aim

- Design a webpage for your department.
- Utilize paragraphs and lists.
- Create links of the words Wifi and LAN to their respective wikipedia pages
- Insert an image that redirects to the college website
- Change the background color and create a link at the bottom to return to the top

## 1.2 Code

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Simple Html Page
    </title>
    <style>
      body {
        font-family: Arial, Helvetica, sans-serif;
        background: #eff1f5;
        color: #4c4f69;
        font-size: 1.3em;
      }
      body::-webkit-scrollbar { display: none; }
      .container {
        display: flex;
        flex-direction: column;
        justify-content: center;
        align-items: center;
        background-color: #e6e9ef;
        border-radius: 8px;
        padding: 0.5em;
        gap: 3px;
      }
      .dark {
        background-color: #dce0e8;
      }
      a {
        color: #dc8a78;
      }
      #college-img {
        background-image: url('https://www.shcollege.ac.in/wp-content/uploads/2020/11/
          ↵ /mc-scaled.jpg');
        background-repeat: no-repeat;
        background-position: center;
        width: 90vw;
        height: 50vh;
        border-radius: inherit;
      }
      li {
        margin-right: 0.9em;
      }
    </style>
```

```
</head>
<body>
  <a id="top"></a>
  <div class="container">
    <h1>
      <u>The Computer Science Department</u>
    </h1>
    <p style="width: 80%; text-align: center;">
      The <b>Computer Science Department</b> of Sacred Heart College, Thevara was
      → established in 2001.
      And since have molded industry leading professionals. Orientations are held
      → periodically to discuss advancements and
      rising trends in the field enabling understanding of cutting-edge
      → technologies. Students are provided with campus wide
      <a href="https://en.wikipedia.org/wiki/Wi-Fi">Wi-Fi</a> available to their
      → portable devices and Computer Systems
      constituting a <a
      → href="https://en.wikipedia.org/wiki/Local_area_network">Local Area
      → Network</a>
    </p>
    <p style="font-weight: 550;">
      The Department offers the following programs:
      <div class="container dark">
        <ul>
          <li><b>B.Sc. Computer Applications</b> (Triple Main incl. Mathematics &
          → Statistics)</li>
          <li><b>B. Computer Applications</b> (BCA: Mobile Applications and Cloud
          → technologies)</li>
          <li><b>M. Sc. Integrated Computer Science</b> (Data Science)</li>
        </ul>
      </div>
    </p>
    <a id="college-img" href="https://www.shcollege.ac.in/">
    </a>
    <a href="#top" style="margin-top: 10px;">Back to top</a>
  </div>
</body>
</html>
```

---

## 1.3 Output

### The Computer Science Department

The **Computer Science Department** of Sacred Heart College, Thevara was established in 2001. And since have molded industry leading professionals. Orientations are held periodically to discuss advancements and rising trends in the field enabling understanding of cutting-edge technologies. Students are provided with campus wide **Wi-Fi** available to their portable devices and Computer Systems constituting a [Local Area Network](#)

**The Department offers the following programs:**

- **B.Sc. Computer Applications** (Triple Main incl. Mathematics & Statistics)
- **B. Computer Applications** (BCA: Mobile Applications and Cloud technologies)
- **M. Sc. Integrated Computer Science** (Data Science)



[Back to top](#)

## 2 Time Table

### 2.1 Aim

- Design the class time table in HTML using table tag

### 2.2 Code

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      time table
    </title>
    <style>
      :root { --flamingo: #dd7878; }
      body {
        font-family: Arial, Helvetica, sans-serif;
        color: #4c4f69;
        font-size: 1.3em;
      }
      table {
        overflow: none;
        border-collapse: collapse;
        border-color: var(--flamingo);
      }
      th, td, tr {
        padding: 10px;
        border-top: solid;
        border-left: solid;
        border-right: solid;
        border-width: 2px;
      }
      tr, td {
        border-bottom: solid;
        text-align: center;
        border-color: inherit;
        color: var(--flamingo);
      }
      .flamingo {
        background-color: var(--flamingo);
        color: snow;
      }
      .center {
        width: 100%;
        height: 98vh;
        display: flex;
        flex-direction: column;
        justify-content: center;
        align-items: center;
      }
      .down {
        writing-mode: vertical-lr;
        text-orientation: upright;
        font-size: 1.4em;
        letter-spacing: 8px;
        color: snow;
        background-color: var(--flamingo);
      }
    </style>
  </head>
  <body>
    <table>
      <thead>
        <tr>
          <th>Subject</th>
          <th>Day</th>
          <th>Time</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td>Mathematics</td>
          <td>Monday</td>
          <td>9:00 AM - 10:00 AM</td>
        </tr>
        <tr>
          <td>Science</td>
          <td>Tuesday</td>
          <td>10:00 AM - 11:00 AM</td>
        </tr>
        <tr>
          <td>English</td>
          <td>Wednesday</td>
          <td>11:00 AM - 12:00 PM</td>
        </tr>
        <tr>
          <td>History</td>
          <td>Thursday</td>
          <td>12:00 PM - 1:00 PM</td>
        </tr>
        <tr>
          <td>Geography</td>
          <td>Friday</td>
          <td>1:00 PM - 2:00 PM</td>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```

```

        }
    </style>
</head>
<body>
<div class="center">
    <table>
        <th colspan="7"> B.Sc. Computer Application S4</th>
        <tr>
            <td class="flamingo">Monday</td>
            <td>Differential</td>
            <td>DBMS</td>
            <td>AWT</td>
            <td rowspan="5" class="down">BREAK</td>
            <td>Stat</td>
            <td>Sampling</td>
        </tr>
        <tr>
            <td class="flamingo">Tuesday</td>
            <td>Sampling</td>
            <td>Differential</td>
            <td>Sampling</td>
            <td>AWT</td>
            <td>Stat</td>
        </tr>
        <tr>
            <td class="flamingo">Wednesday</td>
            <td>Stat</td>
            <td>DBMS</td>
            <td>AWT</td>
            <td>Sampling</td>
            <td>Sampling</td>
        </tr>
        <tr>
            <td class="flamingo">Thursday</td>
            <td>Differential</td>
            <td>Differential</td>
            <td>DBMS</td>
            <td>Stat</td>
            <td>AWT</td>
        </tr>
        <tr>
            <td class="flamingo">Friday</td>
            <td>Stat</td>
            <td>DBMS</td>
            <td>Differential</td>
            <td>LAB</td>
            <td>LAB</td>
        </tr>
    </table>
</div>
</body>
</html>

```

---

## 2.3 Output

| B.Sc. Computer Application S4 |              |              |              |                       |          |          |
|-------------------------------|--------------|--------------|--------------|-----------------------|----------|----------|
| Monday                        | Differential | DBMS         | AWT          | B<br>R<br>E<br>A<br>K | Stat     | Sampling |
|                               | Sampling     | Differential | Sampling     |                       | AWT      | Stat     |
|                               | Stat         | DBMS         | AWT          |                       | Sampling | Sampling |
|                               | Differential | Differential | DBMS         |                       | Stat     | AWT      |
|                               | Stat         | DBMS         | Differential |                       | LAB      | LAB      |

### 3 CSS

#### 3.1 Aim

- utilize inline css for appending styles to html elements
- utilize an external css stylesheet

#### 3.2 Code

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Cascading Style Sheets
    </title>
    <link rel="stylesheet" href="styles.css">
  </head>
  <body>
    <div class="container">
      <h1 style="color: #dc8a78;"> <u>Cats are the best</u> </h1>
      <p class="rose">
        Cats, with their enigmatic grace and independent spirit, have captivated human
        ↳ hearts for millennia. Their slender
        bodies adorned with sleek fur, often in a myriad of colors and patterns, exude
        ↳ elegance and agility. From the regal
        posture of a Siamese to the fluffy charm of a Maine Coon, each breed carries
        ↳ its own unique allure. Their eyes, like
        orbs of liquid gold or emerald pools, reflect an intelligence and curiosity
        ↳ that seem to pierce through the soul,
        hinting at the depths of their mysterious nature.
        
      </p>
      <p class="pink">
        
        Beyond their physical beauty, cats possess a remarkable array of behaviors and
        ↳ characteristics that further endear them
        to humans. Their unparalleled agility and reflexes make them formidable
        ↳ hunters, capable of executing acrobatic feats
        with precision and stealth. Yet, juxtaposed with this predatory prowess is
        ↳ their gentle and affectionate side. Cats have
        an innate ability to form deep bonds with their human companions, often
        ↳ displaying acts of loyalty and companionship
        that defy their reputation for aloofness.
      </p>
      <p class="lavender">
        One of the most fascinating aspects of cats is their complex communication
        ↳ system. From the subtle twitch of an ear to
        the melodious purr of contentment, they have mastered the art of conveying
        ↳ their emotions without uttering a single
        word. Their repertoire of vocalizations, ranging from plaintive meows to
        ↳ thunderous yowls, serves as a means of
        expressing desires, seeking attention, or issuing warnings. Furthermore, their
        ↳ body language, including tail flicks,
```

```

kneading paws, and arched backs, provides additional insight into their mood
↳ and intentions.

</p>
<p class="maroon">

In addition to their charm and charisma, cats also offer a plethora of
↳ benefits to their human counterparts. Numerous
studies have highlighted the positive impact of cat ownership on mental
↳ health, with their soothing presence and
affectionate companionship serving as sources of comfort and stress relief.
↳ Furthermore, their playful antics and
inquisitive nature bring joy and laughter into the lives of their owners,
↳ fostering a sense of happiness and well-being.
Whether curled up contentedly in a sunbeam or engaged in a spirited game of
↳ chase, cats have a remarkable ability to
enrich the lives of those fortunate enough to share their company.
</p>
</div>
</body>
</html>

```

---

external stylesheet

```

body {
  font-family: Arial, Helvetica, sans-serif;
  font-size: 1.3em;
}
body::-webkit-scrollbar { display: none; }

.container {
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
  padding: 50px;
  gap: 15px;
}
p {
  all: unset;
  border-radius: 8px;
  display: flex;
  align-items: center;
  padding: 10px;
  gap: 15px;
}
.rose {
  box-shadow: 5px 6px 5px #dc8a78;
}
.pink {
  box-shadow: 5px 6px 5px #ea76cb;
}
.lavender {
  box-shadow: 5px 6px 5px #7287fd;
}

```

```
}

.maroon {
  box-shadow: 5px 6px 5px #e64553;
}
```

---

### 3.3 Output

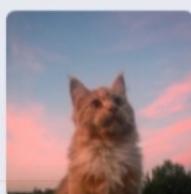
## Cats are the best

Cats, with their enigmatic grace and independent spirit, have captivated human hearts for millennia. Their slender bodies adorned with sleek fur, often in a myriad of colors and patterns, exude elegance and agility. From the regal posture of a Siamese to the fluffy charm of a Maine Coon, each breed carries its own unique allure. Their eyes, like orbs of liquid gold or emerald pools, reflect an intelligence and curiosity that seem to pierce through the soul, hinting at the depths of their mysterious nature.



Beyond their physical beauty, cats possess a remarkable array of behaviors and characteristics that further endear them to humans. Their unparalleled agility and reflexes make them formidable hunters, capable of executing acrobatic feats with precision and stealth. Yet, juxtaposed with this predatory prowess is their gentle and affectionate side. Cats have an innate ability to form deep bonds with their human companions, often displaying acts of loyalty and companionship that defy their reputation for aloofness.

One of the most fascinating aspects of cats is their complex communication system. From the subtle twitch of an ear to the melodious purr of contentment, they have mastered the art of conveying their emotions without uttering a single word. Their repertoire of vocalizations, ranging from plaintive meows to thunderous yowls, serves as a means of expressing desires, seeking attention, or issuing warnings. Furthermore, their body language, including tail flicks, kneading paws, and arched backs, provides additional insight into their mood and intentions.



In addition to their charm and charisma, cats also offer a plethora of benefits to their human counterparts. Numerous studies have highlighted the positive impact of cat ownership on mental health, with their soothing presence and affectionate companionship serving as sources of comfort and stress relief. Furthermore, their playful antics and inquisitive nature bring joy and laughter into the lives of their owners, fostering a sense of happiness and well-being. Whether curled up contentedly in a sunbeam or engaged in a spirited game of chase, cats have a remarkable ability to enrich the lives of those fortunate enough to share their company.

## 4 Form

### 4.1 aim

- Create a simple form
- with fields name age address etc.
- include radio buttons checkboxes and a password field

### 4.2 Code

---

```
<html>
  <head>
    <title>Form</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl text-blue-400 font-semibold mb-2"> Form </h1>
      <form class="bg-slate-100 flex flex-col p-3 rounded-lg gap-1">
        <div class="flex flex-row justify-between">
          Full name:
          <input type="text" name="fullname"
                 class="text-center"
            />
        </div>

        <div class="flex flex-row justify-between">
          <p class="self-start">Gender: </p>
          <div class="flex flex-row gap-3 justify-evenly">
            <input type="radio" name="gender" value="male" class="">male</input>
            <input type="radio" name="gender" value="female">female</input>
            <input type="radio" name="gender" value="other">other</input>
          </div>
        </div>

        <div class="flex flex-row justify-between">
          Date of Birth:
          <input type="date" name="dob"/>
        </div>

        <div class="flex flex-row justify-between">
          Address:
          <input type="text" name="address"
                 class="text-center"/>
        </div>

        <div class="flex flex-row justify-between gap-3">
          Favourite Language:
          <input type="checkbox" name="sub" value="Java">Java</input>
          <input type="checkbox" name="sub" value="PHP">C</input>
          <input type="checkbox" name="sub" value="Rust">Rust</input>
        </div>

        <div class="flex flex-row justify-between">
          Favourite Singer:
          <input type="text" name="singer"
                 class="text-center">
        </div>
      </form>
    </section>
  </body>
</html>
```

```

        />
    </div>

<div class="flex flex-row justify-between">
    Favourite Movie:
    <input type="text" name="movie"
        class="text-center"
    />
</div>

<div class="flex flex-row justify-between">
    Email Id:
    <input type="email" name="email"
        class="text-center"
    />
</div>

<div class="flex flex-row justify-between">
    Password:
    <input type="password" name="pasw"
        class="text-center"
    />
</div>

<input
    class="bg-slate-300 hover:bg-slate-200 p-3 mt-2 rounded-md cursor-pointer"
    type="submit" value="Submit"
>
</form>
</section>
</body>
</html>

```

---

### 4.3 Output

**Form**

|  |   |
|--|---|
| Full name:   | Abijit  |
| Gender:  | <input checked="" type="radio"/> male <input type="radio"/> female <input type="radio"/> other    |
| Date of Birth:   | 11/05/2004 <input style="width: 20px; height: 20px; border: none;" type="button" value="..."/>    |
| Address:   | Kaloor  |
| Favourite Language:  | <input type="checkbox"/> Java <input type="checkbox"/> C <input checked="" type="checkbox"/> Rust |
| Favourite Singer:  | Somebody that I Know  |
| Favourite Movie:   | One Piece   |
| Email Id:  | abiabi@gmail.com  |
| Password:  | *****   |
| <input style="width: 100%; height: 40px; background-color: #ccc; border: none; border-radius: 10px; font-weight: bold;" type="button" value="Submit"/> |   |

## 5 Semester Re-registration Webpage

### 5.1 Aim

- Design a form with the following entries
- Enrolment No.
- Regional Centre Code (Drop-down)
- Study Centre Code (Drop-down)
- Semester (Drop-down)
- Email Id

### 5.2 Code

---

```
<html>
  <head>
    <title>Re-registration Form</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl text-blue-400 font-semibold mb-2">Semester Re-register</h1>
      <form class="bg-slate-100 flex flex-col p-3 rounded-lg gap-1 drop-shadow-md">
        <div class="flex flex-row justify-between gap-3">
          Enrollment number:
          <input type="text" required class="text-center">
        </div>
        <div class="flex flex-row justify-between gap-3">
          Regional centre code:
          <select name="rcc" required>
            <option value="1001">1001</option>
            <option value="1002">1002</option>
            <option value="1003">1003</option>
          </select>
        </div>

        <div class="flex flex-row justify-between gap-3">
          Study centre code:
          <select name="sc" required>
            <option value="s1">s1</option>
            <option value="s2">s2</option>
            <option value="s3">s3</option>
          </select>
        </div>

        <div class="flex flex-row justify-between gap-3">
          Semester:
          <select name="semester" required>
            <option value=1>1</option>
            <option value=2>2</option>
            <option value=3>3</option>
          </select>
        </div>

        <div class="flex flex-row justify-between gap-3">
          Email-id:
        </div>
      </form>
    </section>
  </body>
</html>
```

```
<input type="email" required class="text-center">
</div>
<input type="submit"
      class="bg-slate-300 hover:bg-slate-200 w-fit p-3 self-center rounded-md mt-2
      ↵ cursor-pointer"
    />
</form>
</section>
</body>
</html>
```

---

### 5.3 Output

#### Semester Re-register

|                       |                      |
|-----------------------|----------------------|
| Enrollment number:    | <input type="text"/> |
| Regional centre code: | 1001 ▾               |
| Study centre code:    | s1 ▾                 |
| Semester:             | 1 ▾                  |
| Email-id:             | <input type="text"/> |

## 6 Profit or Loss

### 6.1 Aim

- Write a JavaScript solution for the following
- Accept the cost price and selling price with a button
- Create a button to calculate the loss or profit and display it

### 6.2 Code

```
<!DOCTYPE html>
<html>
  <head>
    <title>Profit Calculator</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-orange-400 text-3xl font-semibold mb-2">Profit Calculator</h1>
      <div class="bg-slate-100 flex flex-col p-4 gap-1 rounded-lg">
        <div class="flex flex-row justify-evenly gap-2 w-52">
          <button
            type="button" onclick="get()"
            class="bg-slate-300 rounded-lg p-3 hover:bg-slate-200 active:bg-slate-400"
          >
            Input
          </button>
          <button
            type="button" onclick=profit()
            class="bg-slate-300 rounded-lg p-3 hover:bg-slate-200 active:bg-slate-400"
          >
            Output
          </button>
        </div>
        <p
          id="output"
          class="text-orange-400 text-xl text-center font-semibold font-sans"
        ></p>
      </div>
    </section>
    <script>
      var profit_amt = 0;
      var sell_price = 0;
      var cost_price = 0;

      function profit() {
        profit_amt = ((sell_price - cost_price)/cost_price) * 100;
        let result = "";
        if (profit_amt > 0) {
          result = "Your profit is " + profit_amt + "%"
        } else {
          result = "Your loss is " + profit_amt + "%"
        }
        document.getElementById("output").innerHTML = result;
      }

      function get() {
```

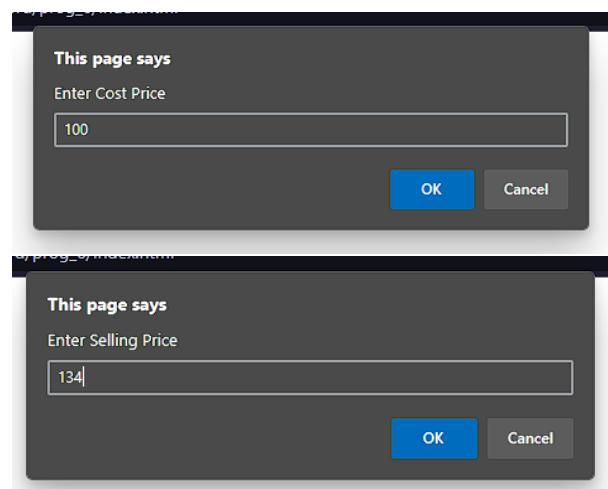
```
cost_price = prompt("Enter Cost Price");
sell_price = prompt("Enter Selling Price");
}
</script>
</body>
</html>
```

---

### 6.3 Output

## Profit Calculator

Input      Output



## Profit Calculator

Input      Output

Your profit is 34%

## 7 Electrical Connection Form

### 7.1 Aim

- Create a form with the following fields
- Permanent or temporary connection (radio button)
- Government or Private house (radio button)
- Name and Email

### 7.2 Code

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>Electric Form</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="mb-2 text-3xl text-orange-400 font-semibold">
        Electrical Connection Form
      </h1>
      <form
        class="bg-slate-100 flex flex-col p-4 gap-1 rounded-lg"
        id="myform"
        onsubmit="validate()"
      >
        <p class="font-semibold">
          Specify Connection Type:
        </p>
        <div class="flex flex-row gap-3">
          <input name="connection" type="radio" value="temp" >
          temporary
        </input>
          <input name="connection" type="radio" value="perm" >
          permanent
        </input>
      </div>

        <p class="font-semibold">
          Specify House Type:
        </p>
        <div class="flex flex-row gap-3">
          <input name="house" type="radio" value="gov" >
          government house
        </input>
          <input name="house" type="radio" value="private" >
          private house
        </input>
      </div>
      <div class="flex flex-row justify-between">
        <p class="font-semibold">Name:</p>
        <input
          class="w-3/4 rounded-md text-center"
          type="text"
          placeholder=" Enter your name"
        >
      </div>
    </section>
  </body>
</html>
```

```

        />
    </div>
    <div class="flex flex-row justify-between">
        <p class="font-semibold">Email:</p>
        <input
            class="w-3/4 rounded-md text-center"
            type="email"
            placeholder=" Enter your email"
        />
    </div>
    <input
        class="bg-slate-300 w-fit self-center p-2 rounded-l mt-3 font-semibold"
        ↵ cursor-pointer hover:bg-slate-200"
        type="submit" value="Submit"
    />
</form>
</section>
<script>
    function validate() {
        let form = document.getElementById("myform");
        for (let input of form.elements) {
            if (input.value == "") {
                alert("Kindly fill all values");
                return;
            }
        }
        alert("Form Submitted Succesfully");
    }
</script>
</body>
</html>

```

---

### 7.3 Output

## Electrical Connection Form

**Specify Connection Type:**

temporary  permanent

**Specify House Type:**

government house  private house

Name: Solo Stin

Email: solol@steelmail.com

**Submit**

## 8 Word Search

### 8.1 Aim

- Write a JavaScript Program to search for a word in a sentence
- the search should be performed when a appropriate button is clicked

### 8.2 Code

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>Word Finder</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-pink-400 font-semibold text-3xl text-center mb-2">
        Word Finder
      </h1>
      <div class="bg-slate-100 flex flex-col p-4 gap-1 rounded-lg w-96">
        <p class="font-semibold">Enter your sentence</p>
        <input type="text" id="sentence" class="text-center"/>
        <p class="font-semibold">Enter the word to search</p>
        <input type="text" id="word" class="text-center text-orange-400"/>

        <button
          class="p-2 bg-slate-300 hover:bg-slate-200 w-32 self-center rounded-md mt-3
          ↩ text-xl"
          onclick=result()
        > Find </button>

        <p id="output" class="text-xl text-center mt-2"></p>
      </div>
    </section>
    <script>
      function result() {
        let sentence = document.getElementById("sentence").value.trim();
        let search_word = document.getElementById("word").value.trim();

        let output = document.getElementById("output");
        for (let word of sentence.split(" ")) {
          if (word == search_word) {
            output.innerHTML = "The word <a class='text-orange-400'>" +
              + word +
              "</a> is found in the string";
            return;
          }
        }
        output.innerHTML = "Could not find the word inside string";
      }
    </script>
  </body>
</html>
```

---

### 8.3 Output

## Word Finder

Enter your sentence  
Once upon a time there lived a cute cat

Enter the word to search

**Find**

The word **cat** is found in the string

## Word Finder

Enter your sentence  
Once upon a time there lived a cute cat

Enter the word to search

**Find**

Could not find the word inside string

## 9 Prime and Armstrong

### 9.1 Aim

- Write a program to determine whether a number is Armstrong or Prime

### 9.2 Code

```
<!DOCTYPE html>
<html>
  <head>
    <title>Prime or Armstrong?</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-pink-400 font-semibold text-3xl text-center mb-2">
        Prime or Armstrong
      </h1>
      <div class="bg-slate-100 flex flex-col p-4 gap-1 rounded-lg w-96">
        <div class="flex flex-row p-2 gap-1 justify-around">
          <p class="font-semibold">Enter a number</p>
          <input type="number" id="number" class="text-center"/>
        </div>
        <div class="flex flex-row p-2 gap-3 justify-center">
          <button
            class="p-2 bg-slate-300 hover:bg-slate-200 w-32 rounded-md text-xl"
            onclick=is_prime()
            > Prime? </button>
          <button
            class="p-2 bg-slate-300 hover:bg-slate-200 w-32 rounded-md text-xl"
            onclick=is_armstrong()
            > Armstrong? </button>
        </div>
        <p id="output" class="text-xl text-center mt-2"></p>
      </div>
    </section>
    <script>
      let output = document.getElementById("output");

      function is_prime() {
        let num = document.getElementById("number").value;
        for (let i = 2; i < num/2; i++) {
          if (num % i == 0) {
            output.innerHTML = num + " is NOT prime";
            return;
          }
        }
        output.innerHTML = "<a class='text-pink-400 font-semibold'>" + num + " is
          → PRIME </a>";
      }

      function is_armstrong() {
        let num = document.getElementById("number").value;
        let str_num = String(num);
        let exponent = str_num.length;
```

```

let result = 0;

for (let ch of str_num.split("")) {
    result += Number(ch) ** exponent;
}

if (result == num) {
    output.innerHTML = "<a class='text-pink-400 font-semibold'>" + num + " is
    ↵ ARMSTRONG</a>";
} else {
    output.innerHTML = num + " is NOT armstrong</a>";
}
}

</script>
</body>
</html>

```

---

### 9.3 Output

**Prime or Armstrong**

Enter a number

Prime?
Armstrong?

**153 is ARMSTRONG**

**Prime or Armstrong**

Enter a number

Prime?
Armstrong?

**153 is NOT prime**

## 10 Fibonacci Series

### 10.1 Aim

- Write a program to display the first n terms of the Fibonacci series

### 10.2 Code

---

```
<html>
  <head>
    <title>Fibonacci Series</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-pink-400 font-semibold text-3xl text-center mb-2">
        Fibonacci Series
      </h1>
      <div class="bg-slate-100 flex flex-col p-3 gap-2 rounded-lg w-96">
        <div class="flex flex-row justify-evenly">
          <p class="font-semibold">Enter the number of terms</p>
          <input class="text-center w-32" type="number" id="number"/>
        </div>
        <button
          class="p-2 bg-slate-300 hover:bg-slate-200 w-32 self-center rounded-md
          ↵ text-xl"
          onclick=getsseries()
        > Find </button>
        <p id="output" class="text-xl text-center"></p>
      </div>
    </section>
    <script>
      function getsseries() {
        let output = "";
        let number = document.getElementById("number").value;
        for (let i = 0; i < number; i++) {
          output += fibo(i) + " ";
        }
        document.getElementById("output").innerHTML = output;
      }
      function fibo(num) {
        return (num < 2)? num : fibo(num-1) + fibo(num-2);
      }
    </script>
  </body>
</html>
```

---

### 10.3 Output

**Fibonacci Series**

Enter the number of terms

Find

0 1 1 2 3 5 8 13

# 11 University Login

## 11.1 Aim

- Create a login page
- with fields name and enrollment number
- After submitting information, redirect to a welcome page

## 11.2 Code

index.html

---

```
<html>
  <head>
    <title>University Login</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="mb-2 text-3xl text-lime-400 font-semibold">
        Login
      </h1>
      <form
        class="bg-slate-100 flex flex-col p-4 gap-1 rounded-lg"
        action="login.html"
        method="get"
      >
        <div class="flex flex-row justify-between">
          <p class="font-semibold">Name:</p>
          <input
            class="w-3/4 rounded-md text-center"
            name="name"
            type="text" required
          />
        </div>
        <div class="flex flex-row justify-between">
          <p class="font-semibold">Enrollment No.:</p>
          <input
            class="w-2/4 rounded-md text-center"
            type="number" required
          />
        </div>
        <input
          class="bg-slate-300 w-fit self-center p-2 rounded-md mt-3 font-semibold"
          ↵ cursor-pointer hover:bg-slate-200"
          type="submit" value="Submit"
        />
      </form>
    </section>
  </body>
</html>
```

---

login.html

---

```
<html>
  <head>
    <title>University Login</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="mb-2 text-6xl text-slate-800 font-semibold">
        Welcome <a class="text-lime-300" id="name"></a>
      </h1>
      <h1 class="mb-2 text-xl text-slate-700 font-semibold">
        Login Successful
      </h1>
    </section>
    <script>
      let url = window.location.href;
      url = url
        .split('?')[1]
        // regex for removing + from GET
        .split('=')[1].replace(/\+/g, ' ');
      document.getElementById("name").innerHTML = url;
    </script>
  </body>
</html>
```

---

### 11.3 Output

**Login**

|                 |           |
|-----------------|-----------|
| Name:           | Zid Heart |
| Enrollment No.: | 00100     |

**Submit**

**Welcome Zid Heart**  
Login Successful

## 12 First Vowel

### 12.1 Aim

- Write a JavaScript program to find the first vowel in a string

### 12.2 Code

---

```
<html>
  <head>
    <title>First Vowel</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl font-semibold text-purple-400 mb-2">First Vowel</h1>
      <div class="bg-slate-100 flex flex-col p-4 gap-1 rounded-lg">
        <div class="flex flex-row">
          <input
            class="text-center"
            placeholder="Enter a String"
            id="input"
          />
          <button
            class="bg-slate-300 hover:bg-slate-200 p-3"
            onclick=firstvowel()
          > Find </button>
        </div>
        <p id="output" class="text-xl font-semibold text-center mt-2"></p>
      </div>
    </section>
    <script>
      function firstvowel() {
        let input = document.getElementById("input").value;
        let output = document.getElementById("output");
        let style = "<a class='text-purple-400'>";

        for (let ch of input.split("")) {
          if ("aeiouAEIOU".includes(ch)) {
            output.innerHTML = "first vowel is " + style + ch + "</a>";
            return;
          }
        }
        output.innerHTML = "No vowels found";
      }
    </script>
  </body>
</html>
```

---

### 12.3 Output



## 13 Basic Calculator

### 13.1 Aim

- Write a JavaScript program implementing a Simple Calculator

### 13.2 Code

---

```
<html>
  <head>
    <title>Basic Calculator</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl font-semibold text-teal-400 mb-2">Calculator</h1>
      <div class="bg-slate-100 flex flex-col p-4 gap-1 rounded-lg">
        <div class="flex flex-row rounded-md overflow-hidden">
          <input
            class="text-center"
            placeholder="Enter Expression"
            id="input"
          />
          <button
            class="bg-slate-300 hover:bg-slate-200 p-3 active:bg-slate-400"
            onclick=compute()
          > Find </button>
        </div>
        <p id="output" class="text-xl text-center mt-2"></p>
      </div>
    </section>
    <script>
      function compute() {
        let input = document.getElementById("input")
          .value.trim().split(' ');
        let output = document.getElementById("output");

        let style = "<a class='text-teal-400'>";
        let result = input[0] + " " + input[1] + " " + input[2] + " = " + style;

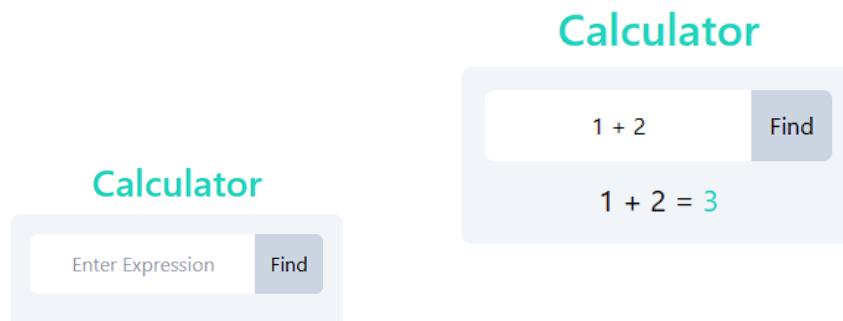
        if (input.length != 3) { output.innerHTML = "Invalid Expression"; return; }
        switch (input[1]) {
          case "+": result += (Number(input[0]) + Number(input[2])); break;
          case "-": result += Number(input[0]) - Number(input[2]); break;
          case "*": result += Number(input[0]) * Number(input[2]); break;
          case "/": result += Number(input[0]) / Number(input[2]); break;
          default: output.innerHTML = "Invalid Expression"; break;
        }

        output.innerHTML = result + "</a>";
      }
    </script>
  </body>
</html>
```

---

### 13.3 Output

**Calculator**

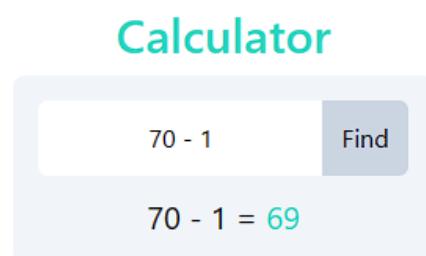


The interface shows a calculator with a light gray background. At the top, the word "Calculator" is written in a teal font. Below it is a rectangular input field with rounded corners. Inside the input field, the expression "1 + 2" is displayed. To the right of the input field is a dark gray button labeled "Find". Below the input field, the result "1 + 2 = 3" is shown in a teal font.

Enter Expression  Find

1 + 2 = 3

**Calculator**

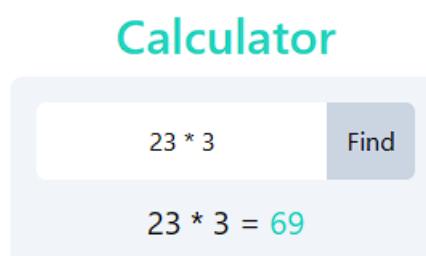


The interface shows a calculator with a light gray background. At the top, the word "Calculator" is written in a teal font. Below it is a rectangular input field with rounded corners. Inside the input field, the expression "70 - 1" is displayed. To the right of the input field is a dark gray button labeled "Find". Below the input field, the result "70 - 1 = 69" is shown in a teal font.

70 - 1

70 - 1 = 69

**Calculator**

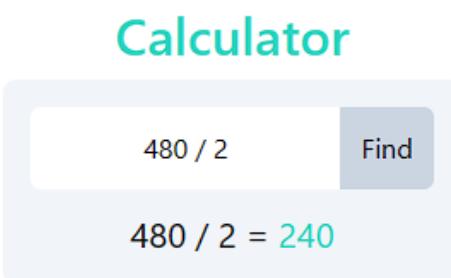


The interface shows a calculator with a light gray background. At the top, the word "Calculator" is written in a teal font. Below it is a rectangular input field with rounded corners. Inside the input field, the expression "23 \* 3" is displayed. To the right of the input field is a dark gray button labeled "Find". Below the input field, the result "23 \* 3 = 69" is shown in a teal font.

23 \* 3

23 \* 3 = 69

**Calculator**



The interface shows a calculator with a light gray background. At the top, the word "Calculator" is written in a teal font. Below it is a rectangular input field with rounded corners. Inside the input field, the expression "480 / 2" is displayed. To the right of the input field is a dark gray button labeled "Find". Below the input field, the result "480 / 2 = 240" is shown in a teal font.

480 / 2

480 / 2 = 240

## 14 Company Profile Form

### 14.1 Aim

- Create a form for entering A company Profile
- The form should have an update button
- update button should update the profile

### 14.2 Code

```
<!DOCTYPE html>
<html>
  <head>
    <title>Company information</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl font-semibold text-purple-400 mb-2">Company Form</h1>
      <div class="flex flex-row gap-8 items-center">
        <div class="bg-slate-100 flex flex-col p-4 gap-1 rounded-md">
          <p class="font-semibold text-center">Employee Name</p>
          <input
            type="text" id="name" value="Ann Rexi"
            class="text-center" required
          />
          <p class="font-semibold text-center mt-1">Address</p>
          <input
            type="text" id="addr" value="Kochi, Kerala"
            class="text-center" required
          />
          <p class="font-semibold text-center mt-1">Email</p>
          <input
            type="email" id="email" value="annrexie@gmail.com"
            class="text-center" required
          />
          <button
            class="bg-slate-300 hover:bg-slate-200 active:bg-slate-400 p-3
              cursor-pointer mt-2 rounded-md"
            onclick=update()
          >Update</button>
        </div>
        <div class="bg-slate-100 flex flex-col p-4 text-2xl h-fit rounded-md">
          <p name="output"/>
          <p name="output"/>
          <p name="output"/>
        </div>
      </div>
    </section>
    <script>
      update(); // call once to display initial value
      function update() {
        let name = document.getElementById("name").value;
        let addr = document.getElementById("addr").value;
        let email = document.getElementById("email").value;
        let output = document.getElementsByName("output");
        let style = "<a class='text-pink-400 font-semibold'>"
```

```

        output[0].innerHTML = "Employee: " + style + name + "</a>"  

        output[1].innerHTML = "Address: " + style + addr + "</a>";  

        output[2].innerHTML = "Email: " + style + email + "</a>";  

    }  

</script>  

</body>  

</html>

```

---

### 14.3 Output

**Company Form**

**Employee Name**  
Ann Rexi

**Address**  
Kochi, Kerala

**Email**  
annrexie@gmail.com

**Employee:** **Ann Rexi**  
**Address:** **Kochi, Kerala**  
**Email:** **annrexie@gmail.com**

**Company Form**

**Employee Name**  
Ann Rexi

**Address**  
Ernakulam Kerala

**Email**  
annann@gmail.com

**Employee:** **Ann Rexi**  
**Address:** **Ernakulam Kerala**  
**Email:** **annann@gmail.com**

## 15 Random Number

### 15.1 Aim

- Write a JavaScript program to perform the following
- validation checks on text and email fields of a form
- Generate a random number when a Button is clicked

### 15.2 Code

---

```
<html>
  <head>
    <title>Random Number</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl font-semibold text-red-400 mb-2">Random Number</h1>
      <div class="bg-slate-100 flex flex-col p-3 rounded-lg">
        <form class="flex flex-row overflow-hidden rounded-s" onsubmit="validate()">
          <div class="flex flex-col">
            <input
              type="text" placeholder="Enter Name"
              class="text-center" name="name"
            />
            <input
              type="email" placeholder="Enter email"
              class="text-center" name="email"
            />
          </div>
          <input type="submit"
            class="bg-slate-300 hover:bg-slate-200 active:bg-slate-400 p-3
            ↪ cursor-pointer"
          />
        </form>
        <div class="flex flex-row rounded-sm overflow-hidden w-fit self-center">
          <button
            class="bg-slate-300 hover:bg-slate-200 active:bg-slate-400 p-3
            ↪ cursor-pointer"
            onclick=random()
          > generate </button>
          <p id="rand"
            class="bg-white flex flex-col justify-center p-3 pl-6 pr-6 text-red-400
            ↪ font-semibold"
          > 84 </p>
        </div>
      </div>
    </section>
    <script>
      document.forms[0].addEventListener("submit", function (e) { e.preventDefault() });
      function random() {
        document.getElementById("rand")
          .innerHTML = Math.floor(Math.random() * 100)
      }
      function validate() {
        let form = document.forms[0];
        if (form["name"].value == "") {

```

```
        alert("Name is empty")
    }
else if (form["email"].value == "") {
    alert("Email is empty")
} else {
    alert("Form Submitted")
}
</script>
</body>
</html>
```

---

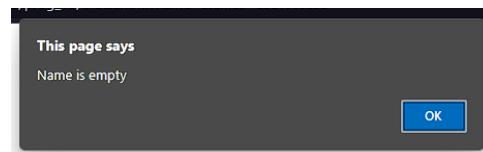
### 15.3 Output

#### Random Number

Enter Name  
Enter email

Submit

generate      84

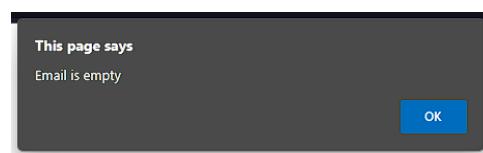


#### Random Number

Nana Paul  
Enter email

Submit

generate      97



#### Random Number

Nana Paul  
mpaul@gmail.com

Submit

generate      27



# 16 Company Login Page

## 16.1 Aim

- Design a login page of a company
- with fields name and password
- redirect to the company homepage after clicking login
- the homepage must display details of the company

## 16.2 Code

index.html

---

```
<html>
  <head>
    <title>University Login</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body class="bg-[url('https://wallpaperaccess.com/full/3480773.jpg')]">
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <form
        class="bg-slate-950 flex flex-col p-4 gap-3 rounded-md text-white
        ↵ bg-opacity-55 w-1/5"
        action="webpage.html"
        method="get"
      >
        <h1 class="mb-4 text-3xl text-amber-500 font-semibold text-center">
          Login
        </h1>
        <div class="flex flex-row justify-between">
          <p class="font-semibold">Name:</p>
          <input
            class="w-3/4 rounded-md text-center bg-transparent border-slate-200
            ↵ border-2"
            name="name"
            type="text" required
          />
        </div>
        <div class="flex flex-row justify-between">
          <p class="font-semibold">Password:</p>
          <input
            class="w-2/4 rounded-md text-center bg-transparent border-slate-200
            ↵ border-2"
            type="password" required
          />
        </div>
        <input
          class="w-1/2 self-center p-3 rounded-md mt-3 font-semibold cursor-pointer
          ↵ hover:border-slate-200 border-2 border-transparent"
          type="submit" value="Submit"
        />
      </form>
    </section>
  </body>
</html>
```

---

webpage.html

---

```

<html>
  <head>
    <title>University Login</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body class="bg-[url('https://wallpaperaccess.com/full/3480773.jpg')] bg-fixed flex
  ↪ flex-col pt-10 pb-10 gap-4">
    <h1 class="text-6xl text-slate-50 font-semibold text-center drop-shadow-xl">
      Welcome <a class="text-amber-500" id="name"></a>
    </h1>
    <div class="flex flex-row w-full justify-center">
      <div class="bg-slate-950 bg-opacity-50 p-3 pt-10 pb-10 flex flex-col gap-5
      ↪ text-slate-50 w-3/4 items-center rounded-sm">
        <h1 class="text-3xl font-semibold"> Company Information </h1>
        <p class="w-5/6">
          Lorem ipsum dolor sit amet, officia excepteur ex fugiat reprehenderit enim
          ↪ labore culpa sint ad nisi Lorem pariatur
          mollit ex esse exercitation amet. Nisi anim cupidatat excepteur officia.
          ↪ Reprehenderit nostrud nostrud ipsum Lorem est
          aliquip amet voluptate voluptate dolor minim nulla est proident. Nostrud
          ↪ officia pariatur ut officia. Sit irure elit
          esse ea nulla sunt ex occaecat reprehenderit commodo officia dolor Lorem
          ↪ duis laboris cupidatat officia voluptate. Culpa
          proident adipisicing id nulla nisi laboris ex in Lorem sunt duis officia
          ↪ eiusmod. Aliqua reprehenderit commodo ex non
          excepteur duis sunt velit enim. Voluptate laboris sint cupidatat ullamco ut
          ↪ ea consectetur et est culpa et culpa duis.
        </p>
        <p class="w-5/6">
          Lorem ipsum dolor sit amet, officia excepteur ex fugiat reprehenderit enim
          ↪ labore culpa sint ad nisi Lorem pariatur
          mollit ex esse exercitation amet. Nisi anim cupidatat excepteur officia.
          ↪ Reprehenderit nostrud nostrud ipsum Lorem est
          aliquip amet voluptate voluptate dolor minim nulla est proident. Nostrud
          ↪ officia pariatur ut officia. Sit irure elit
          esse ea nulla sunt ex occaecat reprehenderit commodo officia dolor Lorem
          ↪ duis laboris cupidatat officia voluptate. Culpa
          proident adipisicing id nulla nisi laboris ex in Lorem sunt duis officia
          ↪ eiusmod. Aliqua reprehenderit commodo ex non
          excepteur duis sunt velit enim. Voluptate laboris sint cupidatat ullamco ut
          ↪ ea consectetur et est culpa et culpa duis.
        </p>
      <div
        class="bg-[url('https://wallpapercave.com/wp/wp6257941.jpg')] bg-cover h-96
        ↪ rounded-md w-3/4 self-center"
      ></div>
      <h1 class="text-3xl text-center font-semibold"> Our Purpose </h1>
      <p class="w-5/6">
        At the heart of our company beats a passion for anime|an art form that
        ↪ transcends boundaries, captivating hearts and
        minds worldwide. Our purpose is twofold: to celebrate the rich tapestry of
        ↪ anime, weaving together intricate narratives,
        vibrant characters, and breathtaking visuals, and to share this passion with
        ↪ enthusiasts, both seasoned and budding.
      </p>
    </div>
  </body>

```

```
Through our dedication to curating an eclectic selection of anime, we strive
↳ to create a space where individuals can
immerse themselves in worlds both familiar and fantastical, finding solace,
↳ inspiration, and connection.

</p>
<p class="w-5/6">
    Guided by our commitment to fostering a community of creativity and
    ↳ inclusivity, we aim to be more than just a platform;
    we aspire to be a beacon of light, illuminating new perspectives, igniting
    ↳ imaginations, and nurturing the boundless
    potential within each viewer. Together, let us embark on a journey where
    ↳ every frame tells a story, and every story
    sparks a dream.
</p>
</div>
</div>
<script>
    let url = window.location.href;
    url = url
        .split('?')[1]
        // regex for removing + from GET
        .split('=')[1].replace(/\+/g, ' ');
    document.getElementById("name").innerHTML = String(url);
</script>
</body>
</html>
```

---

## 16.3 Output



## 17 Registration Form

### 17.1 Aim

- Write a Javascript program to validate a form with the following fields
- Name, Email, Country code (text)
- Zip Code (Drop Down)

### 17.2 Code

---

```
<html>
  <head>
    <title>Registration Form</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl text-blue-400 font-semibold mb-2">Register</h1>
      <form
        name="registration"
        onsubmit="validate()"
        class="bg-white flex flex-col p-10 rounded-lg gap-8 font-semibold
          ↪ drop-shadow-xl *:flex *:flex-row *:justify-between *:gap-10
          ↪ *:items-center"
      >
        <div>
          Name
          <input type="text"
            name="name"
            class="text-center font-normal focus:outline-none border-b-2
              ↪ border-blue-300 focus:border-blue-400 drop-shadow-md bg-transparent"
            />
        </div>

        <div>
          Zip Code
          <select class="font-normal bg-blue-400 rounded-md px-2 py-1 text-white
            ↪ focus:outline-none">
            <option>2018</option>
            <option>8123</option>
            <option>1243</option>
          </select>
        </div>
        <div>
          Email id
          <input type="email"
            name="email"
            class="text-center font-normal focus:outline-none border-b-2
              ↪ border-blue-300 focus:border-blue-400 drop-shadow-md bg-transparent"
            />
        </div>
        <div>
          Country code
          <input type="text"
            name="country"
            class="text-center font-normal focus:outline-none border-b-2
              ↪ border-blue-300 focus:border-blue-400 drop-shadow-md bg-transparent"
            />
        </div>
    </section>
  </body>
</html>
```

```

        />
    </div>
    <input type="submit"
        class="bg-blue-400 hover:bg-blue-500 w-[100px] text p-3 rounded-md
        ↵ cursor-pointer text-white text-center font-semibold drop-shadow-md"
    />
</form>
</section>
<script>
    document.getElementsByName("registration")[0].addEventListener("submit",
    ↵ function (e) { e.preventDefault() });
    function validate() {
        let form = document.forms["registration"]

        if (form["name"].value == "") {
            alert("name is empty")
        } else if (form["email"].value == "") {
            alert("email is empty")
        } else if (form["country"].value == "") {
            alert("country code is empty")
        } else {
            alert("Form Submitted Successfully")
        }
    }
</script>
</body>
</html>

```

---

### 17.3 Output

**Register**

|  |  |
|--|--|
| Name   | <input type="text" value="Abi Nav"/>   |
| Zip Code   | <input style="background-color: #007bff; color: white; border-radius: 10px; padding: 5px; width: 50px; height: 30px;" type="text" value="8123"/> |
| Email id   | <input type="text" value="itsabhi@soccer.com"/>  |
| Country code   | <input type="text" value="1"/>   |
| <input style="background-color: #007bff; color: white; border-radius: 10px; padding: 10px; width: 150px; height: 50px;" type="button" value="Submit"/> |  |

## 18 Hiding with JQuery

### 18.1 Aim

- Use the JQuery library to hide elements using the different kinds of selectors
- make a drop down list which can be used to select what element is hidden

### 18.2 Code

---

```
<html>
  <head>
    <title>Jquery</title>
    <script src="https://cdn.tailwindcss.com"></script>
    <!-- The following line is very important for using JQUERY library -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl font-semibold text-rose-400 mb-2">Jquery Hide</h1>
      <div class="bg-white flex flex-col p-3 rounded-lg drop-shadow-md">
        <div class="flex flex-row p-3 gap-2 text-white font-semibold justify-evenly">
          <a
            class="bg-pink-400 p-3 rounded-md"
          > Element </a>
          <p
            id="id"
            class="bg-teal-400 p-3 pl-6 pr-6 rounded-md"
          > Id </p>
          <p
            class="cls bg-cyan-400 p-3 pl-4 pr-4 rounded-md"
          > Class </p>
        </div>
        <div class="flex flex-row p-3 gap-2 justify-evenly">
          <label for="selection" class="text-rose-400 font-semibold text-xl"> What to
            <-- hide? </label>
          <select name="selection" class="text-rose-400 text-center font-semibold
            <-- drop-shadow-sm">
            <option value="none">none</option>
            <option value="ele">element</option>
            <option value="id">id</option>
            <option value=".cls">class</option>
          </select>
        </div>
      </div>
    </section>
    <script>
      $(document).ready(function() {
        $("select").change(function() {
          var options = $(this).children("option:selected").val();

          // reset
          $("a").show();
          $("#id").show();
          $(".cls").show();

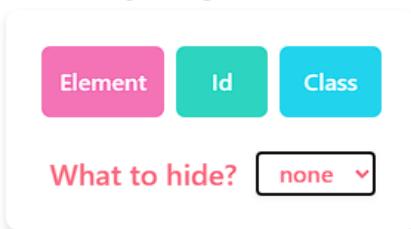
          if (options == "ele") { $("a").hide(); }
        })
      })
    </script>
  </body>
</html>
```

```
        else if (options == "id") { $("#id").hide(); }
        else if (options == "cls") { $(".cls").hide(); }
    })
})
</script>
</body>
</html>
```

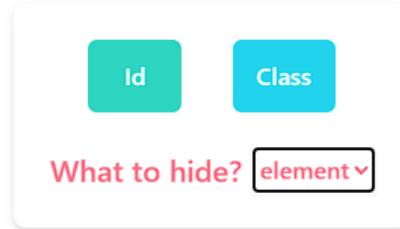
---

### 18.3 Output

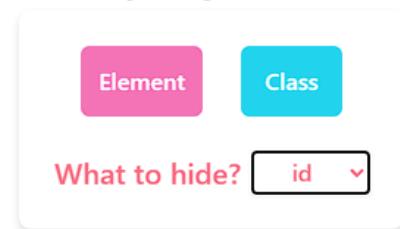
Jquery Hide



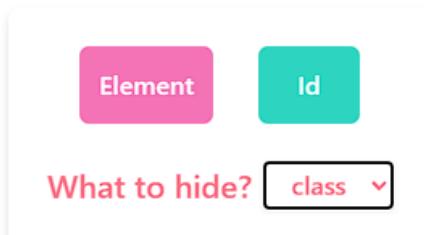
Jquery Hide



Jquery Hide



Jquery Hide



## 19 Online Railway Booking

### 19.1 Aim

- Design a website for booking online railway tickets having the following fields:
- Name, email, gender (radio)
- Date of Journey
- Destination (dropdown)

### 19.2 Code

---

```
<html>
  <head>
    <title>Railway Booking</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body class="bg-[url('https://cdn.wallpapersafari.com/51/69/G6gxTr.jpg')]">
    <section class="w-full h-screen flex flex-col justify-center items-center">
      <h1 class="text-3xl font-bold text-zinc-600 mb-2 drop-shadow-xl">Ticket
        ↵ booking</h1>
      <!-- Note the *: selecter selects every direct children and appends the styles
        ↵ to them -->
      <form class="bg-zinc-50 flex flex-col p-4 gap-3 drop-shadow-xl *:flex *:flex-row
        ↵ *:gap-4 *:p-2 *:justify-between *:items-center *:font-semibold w-[450px]">
        <label>
          Name
          <input
            type="text" name="name" required
            class="focus:outline-zinc-600 p-1 text-center focus:text-inherit w-3/4
              ↵ drop-shadow-sm"
          />
        </label>

        <label>
          Email
          <input
            type="email" name="email" required
            class="focus:outline-zinc-600 p-1 text-center focus:text-inherit w-8/12
              ↵ drop-shadow-sm"
          />
        </label>

        <label>
          Gender
          <div class="flex gap-2">
            <label class="flex flex-row p-2 gap-2 items-center">
              <input
                type="radio" name="gender" value="male"
                class="appearance-none w-5 h-5 border-[3px] border-zinc-600
                  ↵ cursor-pointer checked:border-[6px] checked:border-zinc-600
                  ↵ rounded-full"
              />
              Male
            </label>
            <label class="flex flex-row p-2 gap-2 items-center">
              <input
```

```

        type="radio" name="gender" value="female"
        class="appearance-none w-5 h-5 border-[3px] border-zinc-600
        ↪ cursor-pointer checked:border-[6px] checked:border-zinc-600
        ↪ rounded-full"
    />
    Female
</label>
<label class="flex flex-row p-2 gap-2 items-center">
    <input
        type="radio" name="gender" value="other" checked
        class="appearance-none w-5 h-5 border-[3px] border-zinc-600
        ↪ cursor-pointer checked:border-[6px] checked:border-zinc-600
        ↪ rounded-full"
    />
    Other
    </label>
</div>
</label>

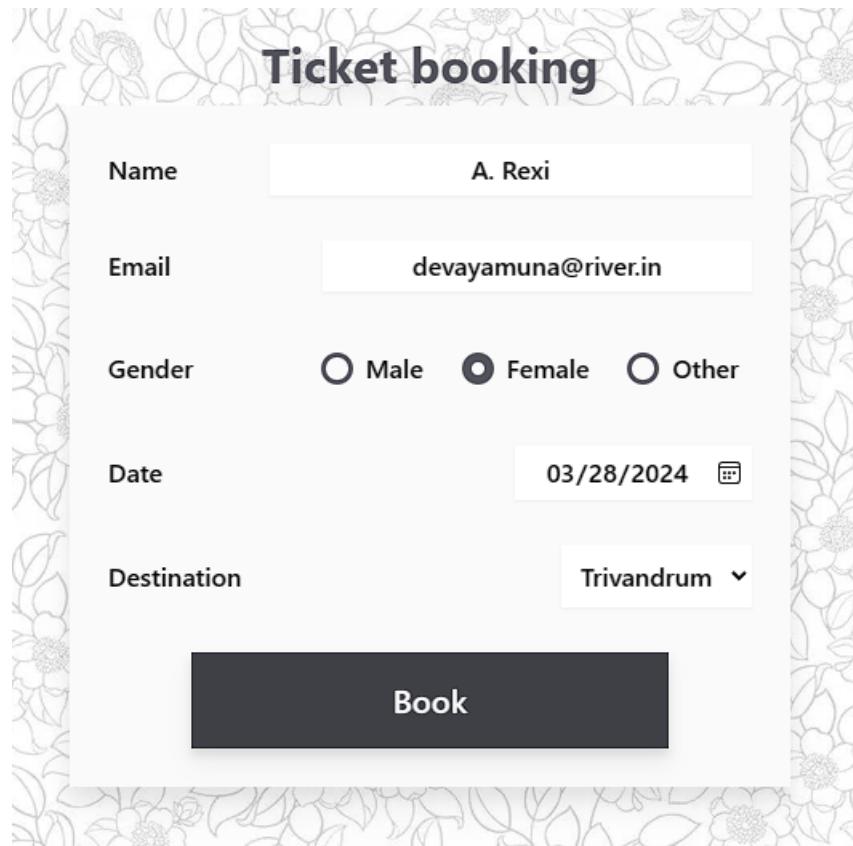
<label>
    Date
    <input
        type="date" name="date" required
        class="p-1 text-center focus:text-inherit drop-shadow-sm"
    />
</label>

<label>
    Destination
    <select name="destination" class="p-2 drop-shadow-sm">
        <option value="kochi">Kochi</option>
        <option value="triv">Trivandrum</option>
        <option value="kanoor">Kanoor</option>
    </select>
</label>
<div class="self-center w-3/4">
    <input
        type="submit" value="Book"
        class="bg-zinc-700 active:bg-zinc-800 p-4 w-full text-white text-xl
        → text-center cursor-pointer drop-shadow-lg"
    />
</div>
</form>
</section>
</body>
</html>

```

---

### 19.3 Output



A ticket booking form titled "Ticket booking" with a floral border. The form fields include Name (A. Rexi), Email (devayamuna@river.in), Gender (Female selected), Date (03/28/2024), Destination (Trivandrum), and a Book button.

| Ticket booking                      |  |
|-------------------------------------|--|
| Name                                | A. Rexi  |
| Email                               | devayamuna@river.in  |
| Gender                              | <input type="radio"/> Male <input checked="" type="radio"/> Female <input type="radio"/> Other |
| Date                                | 03/28/2024 <input type="button" value=""/>   |
| Destination                         | Trivandrum <input type="button" value=""/>   |
| <input type="button" value="Book"/> |  |

## 20 AJAX

### 20.1 Aim

- Write a JavaScript program utilizing AJAX technology

### 20.2 Code

---

```
<html>
  <head>
    <title>Ajax</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="h-screen flex flex-col justify-center items-center p-4 gap-4">
      <h1 class="text-3xl font-semibold">Ajax Program</h1>
      <div class="bg-zinc-50 p-10 gap-10 flex flex-col justify-center border-2
        ↪ border-zinc-600">
        <a id="content">I have not been clicked</a>
        <button
          class="p-4 text-center bg-zinc-600 text-white cursor-pointer
          ↪ active:bg-zinc-800"
          onclick=update()
        > click me </button>
      </div>
    </section>
    <script>
      // NOTE: You will need to run this program via WAMP.
      // Also create a data.txt file
      function update() {
        const xhttp = new XMLHttpRequest();
        xhttp.onload = function () {
          document.getElementById('content').innerHTML = this.responseText;
        }
        xhttp.open("GET", "data.txt");
        xhttp.send();
      }
    </script>
  </body>
</html>
```

---

### 20.3 Output



## 21 Customer Details

### 21.1 Aim

- Use php to display details from a form in tabular manner in a new page. The form contains the following fields
  - customer number, name, place
  - email ID & phone number

### 21.2 Code

index.html

---

```
<html>
  <head>
    <title>Php Form</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center p-5
      ↵ gap-5 text-lg">
      <h1 class="text-4xl font-semibold text-emerald-400 drop-shadow-xl">Customer
      ↵ Form</h1>
      <form
        class="bg-white rounded-lg flex flex-col p-5 gap-3 *:flex *:justify-between
          ↵ *:items-center *:gap-5 *:p-3 font-semibold drop-shadow-xl"
        action="table.php" method="post"
      >
        <label>
          Customer Number
          <input
            class="p-1 px-2 text-center w-5/12 bg-transparent border-b-2
              ↵ border-emerald-400 focus:outline-none focus:border-emerald-500"
            type="number" name="cno" required
          />
        </label>
        <label>
          Name
          <input
            class="p-1 px-2 text-center w-3/4 bg-transparent border-b-2
              ↵ border-emerald-400 focus:outline-none focus:border-emerald-500"
            type="text" name="name" required
          />
        </label>
        <label>
          Place
          <input
            class="p-1 px-2 text-center bg-transparent border-b-2 border-emerald-400
              ↵ focus:outline-none focus:border-emerald-500"
            type="text" name="place" required
          />
        </label>
        <label>
          Email
          <input
            class="p-1 px-2 text-center w-8/12 bg-transparent border-b-2
              ↵ border-emerald-400 focus:outline-none focus:border-emerald-500"
```

```

        type="email" name="email" required
    />
</label>
<label>
    Phone
    <input
        class="p-1 px-2 text-center bg-transparent border-b-2 border-emerald-400
        ↪ focus:outline-none focus:border-emerald-500"
        type="number" name="phono" required
    />
</label>
<div class="w-11/12 self-center">
    <input
        type="submit" value="Submit"
        class="w-full bg-emerald-400 p-4 text-white text-center cursor-pointer
        ↪ hover:bg-emerald-500 active:bg-emerald-600 rounded-lg"
    />
</div>
</form>
</section>
</body>
</html>

```

---

table.php

```

<html>
    <head>
        <title>Received Data</title>
        <script src="https://cdn.tailwindcss.com"></script>
    </head>
    <body>
        <section class="w-full h-screen flex flex-col justify-center items-center p-4
        ↪ gap-3 text-lg">
            <h1 class="text-4xl font-semibold text-emerald-400 drop-shadow-xl">Customer
            ↪ Information</h1>
            <div class="flex flex-col justify-center items-center shadow-md overflow-hidden
            ↪ rounded-md">
                <?php
                    function data($heading, $value) {
                        echo "
                            <div class='flex flex-col *:p-4 *:px-5 items-center text-center g-1'>
                                <h1 class='bg-emerald-400 text-white w-full
                                ↪ font-semibold'>$heading</h1>
                                <a class='bg-white w-full text-emerald-500 font-semibold'>
                                    $value
                                </a>
                            </div>
                        ";
                    }
                <?php
                    // Tables using Flexboxes, you may use <tr> <th> <td> instead
                    echo "<div class='flex flex-row'>";
                    echo data("Customer No.", $_POST['cno']);
                    echo data("Name", $_POST['name']);
                    echo data("Place", $_POST['place']);
                    echo data("Email", $_POST['email'].trim());
                    echo data("Phone No.", $_POST['phono']);
                
```

```
        echo "</div>";
    ?>
</div>
</section>
</body>
</html>
```

---

### 21.3 Output

#### Customer Form

Customer Number 3

Name Krishna Developer

Place Alapuzha

Email sixpacks@flutter.in

Phone 871484559

**Submit**

#### Customer Information

| Customer No. | Name              | Place    | Email               | Phone No. |
|--------------|-------------------|----------|---------------------|-----------|
| 3            | Krishna Developer | Alapuzha | sixpacks@flutter.in | 871484559 |

## 22 Number of Visitors

### 22.1 Aim

- Write a Php program to count the number of visitors

### 22.2 Code

index.php

---

```
<html>
  <head>
    <title>Cool</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center p-4
      gap-4">
      <h1 class="text-9xl font-semibold text-purple-400">
        Hello visitor
      <?php
        $filename= "visitors.txt";
        $data = 1;
        if (file_exists($filename)) {
          $file = fopen($filename, "r");
          $data = fread($file, filesize($filename));
          $data = (int)$data + 1;
        }
        $file = fopen($filename, "w");
        fwrite($file, $data);

        echo "$data";
      ?>
    </h1>
  </section>
</body>
</html>
```

---

### 22.3 Output

Hello visitor 17

## 23 KSEB Login Page

### 23.1 Aim

- Write a Php program to login and view the Consumer Bill

### 23.2 Code

index.html

---

```
<html>
  <head>
    <title>KSEB Login</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center p-4
      gap-4">
      <div class="flex drop-shadow-2xl rounded-md overflow-hidden">
        <div class="lg:bg-[url('https://rare-gallery.com/mocahbig/391790-anime-girl-m
          ikoto-misaka-4k-pc-wallpaper.jpg')] lg:w-[700px] lg:h-[600px] bg-cover
          bg-center">
        </div>
        <form
          action="login.php" method="post"
          class="bg-white flex flex-col p-5 py-10 gap-6 w-[500px] bg-opacity-95
          justify-center items-center h-full"
        >
          <h1 class="text-3xl font-semibold text-center text-zinc-600">KSEB Login</h1>
          <input
            type="text" name="name" placeholder="Username"
            class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none
            border-b-2 border-zinc-300 focus:border-zinc-500 w-3/4"
          ></input>
          <input
            type="number" name="mobile" placeholder="Mobile number" required
            class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none
            border-b-2 border-zinc-300 focus:border-zinc-500 w-3/4"
          />
          <input
            type="submit" value="Submit"
            class="bg-zinc-600 hover:bg-zinc-700 active:bg-zinc-800 cursor-pointer p-4
            mt-5 text-white text-xl font-semibold w-8/12 rounded-md"
          >
        </form>
      </div>
    </section>
  </body>
</html>
```

---

login.php

---

```
<html>
  <head>
    <title>Bill Due</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
```

```

<section class="w-full h-screen flex flex-col justify-center items-center p-4
↪ gap-4">
  <div class="bg-white p-8 gap-10 flex flex-col md:flex-row rounded-xl
↪ drop-shadow-md items-center">
    <?php
      function serve_data($database) {
        $tablename = "kseb";
        $mobile = $_POST['mobile'];

        $query = "SELECT * FROM $tablename WHERE mobile=$mobile";

        $result = $database->query($query);
        if ($result->num_rows < 1) {
          echo"
            <a class='text-4xl text-red-400 text-center'>
              Invalid User!
            </a>
          ";
          return;
        }
        $data = $result->fetch_assoc();
        display_data($data['mobile'], $data['name'], $data['bill'],
↪ $data['profile']);
      }

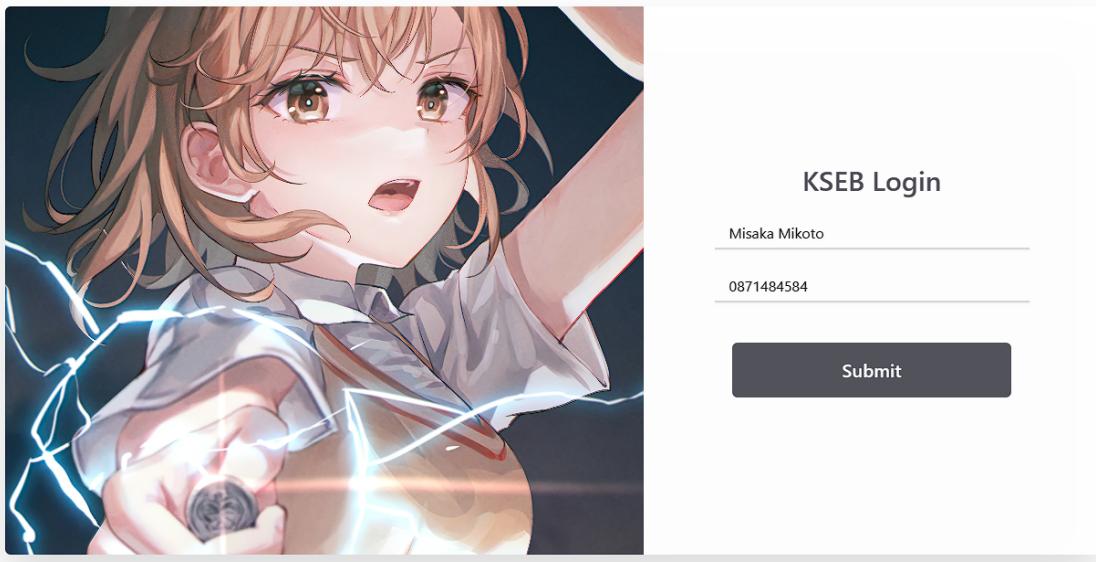
      function display_data($mobile, $name, $bill, $profile) {
        echo"
          <div class='bg-[url($profile)] w-52 h-52 bg-center bg-cover
↪ rounded-full'>
          </div>
          <div class='flex flex-col p-5 gap-2'>
            <p class='text-5xl font-semibold text-zinc-600'>
              $name
            </p>
            <p class='text-xl font-semibold text-zinc-300'>
              +$mobile
            </p>
            <p class='text-6xl font-semibold text-emerald-500 mt-3'>
              $ $bill
            </p>
          </div>
        ";
      }

      $database = new mysqli("localhost", "root", "root", "record");
      if ($database->connect_error) {
        echo "failed to connect to database";
        return;
      }
      serve_data($database);
    ?>
  </div>
</section>
</body>
</html>

```

---

### 23.3 Output



Misaka Mikoto  
+871484584  
**\$ 8000.00**

Joseph Joestar  
+871484581  
**\$ 1010.00**

## 24 Online Application Form

### 24.1 Aim

- Write a PHP program to display the details from an HTML form

### 24.2 Code

index.html

---

```
<html>
  <head>
    <title>Online Form</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center p-4
      gap-4">

      <form
        action="display.php" method="post"
        class="bg-white flex flex-col gap-6 w-[500px] bg-opacity-95 justify-center
          items-center drop-shadow-lg"
      >
        <div class="bg-[url('https://timelinelivecovers.pro/facebook-cover/download/anime_
          -vocaloid-hatsune-miku-headphones-facebook-cover.jpg')] w-full h-[200px]
          bg-cover"></div>
        <h1 class="text-3xl font-semibold text-center text-slate-600">Application
          Form</h1>
        <div class="flex gap-10 justify-between w-3/4">
          <input
            type="text" name="fname" placeholder="First Name" required
            class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none
              border-b-2 border-slate-300 focus:border-slate-500 w-1/2"
          />
          <input
            type="text" name="lname" placeholder="Last Name" required
            class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none
              border-b-2 border-slate-300 focus:border-slate-500"
          />
        </div>
        <input
          type="number" name="regnum" placeholder="Register No." required
          class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none border-b-2
            border-slate-300 focus:border-slate-500 w-3/4"
        ></input>
        <input
          type="email" name="email" placeholder="Email" required
          class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none border-b-2
            border-slate-300 focus:border-slate-500 w-3/4"
        />
        <div class="flex gap-2">
          <label class="flex flex-row p-2 gap-2 items-center">
            <input
              type="radio" name="gender" value="male"
              class="appearance-none w-5 h-5 border-[3px] border-slate-500
                cursor-pointer checked:border-[6px] checked:border-slate-500
                rounded-full"
            />
```

```

        Male
    </label>
    <label class="flex flex-row p-2 gap-2 items-center">
        <input
            type="radio" name="gender" value="female"
            class="appearance-none w-5 h-5 border-[3px] border-slate-500
            ↪ cursor-pointer checked:border-[6px] checked:border-slate-500
            ↪ rounded-full"
        />
        Female
    </label>
    <label class="flex flex-row p-2 gap-2 items-center">
        <input
            type="radio" name="gender" value="other" checked
            class="appearance-none w-5 h-5 border-[3px] border-slate-500
            ↪ cursor-pointer checked:border-[6px] checked:border-slate-500
            ↪ rounded-full"
        />
        Other
    </label>
</div>
<input
    type="submit" value="Submit"
    class="bg-slate-600 hover:bg-slate-700 active:bg-slate-800 cursor-pointer
    ↪ p-4 mt-5 text-white text-xl font-semibold w-8/12 rounded-md mb-10"
    >
</form>
</section>
</body>
</html>

```

---

display.php

```

<html>
    <head>
        <title>Form</title>
        <script src="https://cdn.tailwindcss.com"></script>
    </head>
    <body>
        <section class="w-full h-screen flex flex-col justify-center items-center p-4
        ↪ gap-4">
            <div class="bg-white flex p-5 px-8 gap-16 rounded-lg drop-shadow-lg">
                <div class="bg-[url('https://i.pinimg.com/originals/bd/38/b8/bd38b8584455009f_
                ↪ 03e1c87dfda809ac.jpg')] w-52 h-52 rounded-full
                ↪ bg-cover"></div>
                <?php
                    $fname = $_POST['fname'];
                    $lname = $_POST['lname'];
                    $register = $_POST['regnum'];
                    $email = $_POST['email'];
                    $gender = $_POST['gender'];
                    echo"
                        <div class='flex flex-col p-4 gap-1 justify-center'>
                            <a class='text-5xl text-teal-400 font-semibold'>
                                $fname $lname
                            </a>
                            <div class='*:text-xl flex justify-between gap-10'>
                                <a class='font-semibold text-zinc-600'>

```

```
$email  
/>  
<a class='text-zinc-600'>  
 #$register  
</a>  
</div>  
<a class='text-zinc-400 text-xl'>  
 $gender  
</a>  
</div>  
";  
>  
</div>  
</section>  
</body>  
</html>
```

---

### 24.3 Output



A screenshot of a web application form. At the top, there is a decorative image of the virtual singer Hatsune Miku with her signature blue hair and headphones. Below the image, the title "Application Form" is centered. The form contains several input fields and controls:

- A name field with "Hatsune" selected.
- A name field with "Miku" selected.
- An age field containing the number "39".
- An email field containing "miku@mimail.com".
- Gender selection buttons: Male (unselected), Female (selected), and Other (unselected).
- A large blue "Submit" button at the bottom.



## 25 Current Date Time Cookie

### 25.1 Aim

- Write a PHP program to store the current date and time in a cookie and display the last visited on date-time upon reopening the page

### 25.2 Code

---

```
<?php
date_default_timezone_set("Asia/Kolkata");
setcookie("visit", date("m.d.y"));
?>
<html>
<head>
<title>Cool</title>
<script src="https://cdn.tailwindcss.com"></script>
</head>
<body>
<section class="w-full h-screen flex flex-col justify-center items-center">
<h1 class="text-5xl font-semibold text-rose-500">
<?php
if ($cookie = $_COOKIE["visit"]) {
    echo "Your last visit was at $cookie";
} else {
    echo "No Cookies!";
}
?>
</h1>
</section>
</body>
</html>
```

---

### 25.3 Output

Your last visit was at 03.16.24

## 26 Update Student Phone Number

### 26.1 Aim

- Write a PHP program to login with register no. and update the phone number

### 26.2 Code

index.html

---

```
<html>
  <head>
    <title>Online Form</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
    <section class="w-full h-screen flex flex-col justify-center items-center p-4
      gap-4">
      <form
        action="update.php" method="post"
        class="bg-white flex flex-col gap-6 w-[500px] bg-opacity-95 justify-center
        items-center drop-shadow-lg pb-10 rounded-md overflow-hidden">
        <div class="bg-[url('https://images5.alphacoders.com/111/1115987.jpg')] w-full
          h-[200px] bg-cover bg-bottom"></div>
        <div class="flex px-10 items-center gap-10">
          <div class="flex justify-center flex-col px-10 py-4 items-center gap-5">
            <input
              type="text" name="regno" placeholder="Register Number" required
              class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none
              border-b-2 border-stone-300 focus:border-stone-500"
            />
            <input
              type="number" name="newnum" placeholder="New Mobile Number"
              class="p-1 px-4 drop-shadow-sm bg-transparent focus:outline-none
              border-b-2 border-stone-300 focus:border-stone-500"
            />
          </div>
          <input
            type="submit" value="Submit"
            class="ring-4 ring-stone-400 hover:ring-stone-500 active:ring-stone-600
            cursor-pointer p-4 text-stone-400 hover:text-stone-500
            active:text-stone-600 text-xl font-semibold w-8/12 rounded-md"
          />
        </div>
      </form>
    </section>
  </body>
</html>
```

---

update.php

---

```
<html>
  <head>
    <title>Cool</title>
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body>
```

```

<section class="w-full h-screen flex flex-col justify-center items-center p-4
↪ gap-4">
  <div class="bg-white flex flex-col p-5 py-10 gap-10 rounded-lg drop-shadow-lg
↪ justify-center items-center ring-2 ring-stone-400">
    <div class="bg-[url('https://i.pinimg.com/originals/92/0b/8b/920b8b713723dfaef
↪ 3ecb370be5337d9a.jpg')] size-52 rounded-full bg-cover ring-stone-400
↪ ring-4 drop-shadow-xl"></div>
<?php
  function serve_data($database) {
    $regno = $_POST['regno'];
    $newnum = $_POST['newnum'];
    $tablename = "student";
    $update = false;

    if ($newnum != "") {
      // Update the name if the user has sent a new number on login
      $query = "UPDATE $tablename SET mobile=$newnum WHERE regno='$regno'";
      $database->query($query);
      $updated = true;
    }

    $query = "SELECT * FROM $tablename WHERE regno='$regno'";

    $result = $database->query($query);
    if ($result->num_rows < 1) {
      echo"
        <a class='text-4xl text-red-400 text-center'>
          Invalid User!
        </a>
      ";
      return;
    }

    $data = $result->fetch_assoc();

    display_data($data['mobile'], $data['name'], $data['regno'], $updated);
  }

  function display_data($mobile, $name, $regno, $updated) {
    echo"
      <div class='flex flex-col p-5 justify-center gap-5'>
        <a class='text-xl text-stone-300 font-semibold relative top-4'>
          $regno
        </a>
        <a class='text-5xl text-stone-500 font-semibold'>
          $name
        </a>
        <div class='flex gap-5 items-center'>
          <a class='font-semibold text-white px-2 w-fit bg-stone-400 flex'>
            +$mobile
          </a>
        </div>
      ";
      if ($updated) { // display text if the phone number is updated
        echo "<a class='text-stone-300 text-lg font-bold'>updated</a>";
      }
    echo "

```

```

        </div>
    </div>
    ";
}

$database = new mysqli("localhost", "root", "root", "record");

if ($database->connect_error) {
    echo "failed to connect to database";
    return;
}

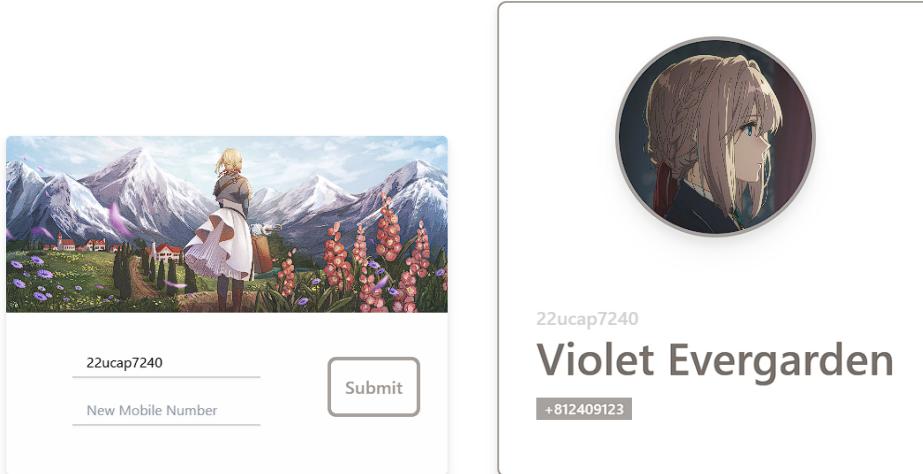
serve_data($database);
?>
</div>
</section>
</body>
</html>

```

---

### 26.3 Output

Submission without entering new phone number



Submission with new phone number

22ucap7240

9929123904

Submit



22ucap7240

**Violet Evergarden**

+9929123904 updated