SACRED HEART COLLEGE

(AUTONOMOUS)



B.Sc. COMPUTER APPLICATIONS

PRACTICAL RECORD

	Name		
	Class	Roll No	
	Reg. No	Year	
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(O)	ffice Seal)	Lectu	re in charge
Submitted for	the University Practi	ical Examination held on	20
Date:		Extern	al Examiner

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	ode																	
	utput																	

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

```
<!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;
        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">
       <u>The Computer Science Department</u>
     The <b>Computer Science Department</b> of Sacred Heart College, Thevara was
       \hookrightarrow established in 2001.
       And since have molded industry leading professionals. Orientations are held
       \hookrightarrow periodically to discuss advancements and
       rising trends in the field enabling understanding of cutting-edge
        _{\,\hookrightarrow\,} technologies. Students are provided with campus wide
       <a href="https://en.wikipedia.org/wiki/Wi-Fi">Wi-Fi</a> available to their
        \rightarrow portable devices and Computer Systems
       constituting a <a
        → href="https://en.wikipedia.org/wiki/Local_area_network">Local Area

→ Network</a>>
     The Department offers the following programs:
       <div class="container dark">
           <b>B.Sc. Computer Applications</b> (Triple Main incl. Mathematics &

    Statistics)

           <b>B. Computer Applications</b> (BCA: Mobile Applications and Cloud

    technologies)

           <b>M. Sc. Integrated Computer Science</b> (Data Science)
         </div>
     <a id="college-img" href="https://www.shcollege.ac.in/">
     <a href="#top" style="margin-top: 10px;">Back to top</a>
    </div>
 </body>
</html>
```

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 <u>Wi-Fi</u> available to their portable devices and Computer Systems constituting a <u>Local Area Network</u>

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

```
<!DOCTYPE html>
<html>
  <head>
    <title>
     time table
    </title>
    <style>
      :root { --flamingo: #dd7878; }
        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>
 <div class="center">
   B.Sc. Computer Application S4
   Monday
    Differential
    DBMS
    AWT
    BREAK
    Stat
    Sampling
   Tuesday
    Sampling
    Differential
    Sampling
    AWT
    Stat
   Wednesday
    Stat
    DBMS
    AWT
    Sampling
    Sampling
   Thursday
    Differential
    Differential
    DBMS
    Stat
    AWT
   Friday
    Stat
    DBMS
    Differential
    LAB
    LAB
   </div>
</body>
</html>
```

B.Sc. Computer Application S4												
Monday	Differential	DBMS	AWT	В	Stat	Sampling						
Tuesday	Sampling	Differential Sampling R AWT				Stat						
Wednesday	Stat	DBMS	AWT	Е	Sampling	Sampling						
Thursday	Differential	Differential	DBMS	A	Stat	AWT						
Friday	Stat	DBMS	Differential	K	LAB	LAB						

3 CSS

3.1 Aim

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

```
<!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>
      Cats, with their enigmatic grace and independent spirit, have captivated human
        \mbox{\ }\mbox{\ }\mbox{\ } hearts for millennia. Their slender
        bodies adorned with sleek fur, often in a myriad of colors and patterns, exude
        \rightarrow elegance and agility. From the regal
        posture of a Siamese to the fluffy charm of a Maine Coon, each breed carries
        \rightarrow 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.
        <img src="https://i.pinimg.com/originals/7c/e9/24/7ce9242425aeacfccde52df4cc2|</pre>
        → 07c90.jpg" alt="" width="150px" style="border-radius:

→ 8px;">

      <img src="https://i.pinimg.com/736x/ed/38/08/ed38082f612fefb0ba51abc84178a797 |</pre>
        → .jpg" alt="" width="150px" style="border-radius:
        \leftrightarrow 8px;">
        Beyond their physical beauty, cats possess a remarkable array of behaviors and
        \hookrightarrow 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
        \rightarrow 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
        \rightarrow system. From the subtle twitch of an ear to
        the melodious purr of contentment, they have mastered the art of conveying
        \hookrightarrow their emotions without uttering a single
        word. Their repertoire of vocalizations, ranging from plaintive meows to
        \rightarrow 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
        \hookrightarrow and intentions.
        <img src="https://i.pinimg.com/474x/26/79/43/26794354f259b5bb807e870cef23fceb | </pre>
        → .jpg" alt="" width="150px" style="border-radius:

→ 8px;">

      <img src="https://i.pinimg.com/originals/fa/99/de/fa99deb4b20e3a419aaafcd8503|</pre>
        → abbdc.jpg" alt="" width="150px" style="border-radius:

→ 8px;">

        In addition to their charm and charisma, cats also offer a plethora of
        \rightarrow benefits to their human counterparts. Numerous
        studies have highlighted the positive impact of cat ownership on mental
        \rightarrow 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,
        \rightarrow fostering a sense of happiness and well-being.
        Whether curled up contentedly in a sunbeam or engaged in a spirited game of
        enrich the lives of those fortunate enough to share their company.
      </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;
}
```

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

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

```
/>
        </div>
        <div class="flex flex-row justify-between">
          Favourite Movie:
          <input type="text" name="movie"</pre>
            class="text-center"
          />
        </div>
        <div class="flex flex-row justify-between">
          Email Id:
          <input type="email" name="email"</pre>
            class="text-center"
          />
        </div>
        <div class="flex flex-row justify-between">
          Password:
          <input type="password" name="pasw"</pre>
            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>
```

Form



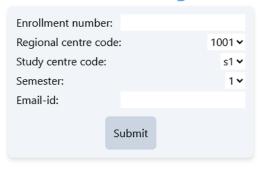
5 Semester Re-registration Webpage

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

```
<html>
 <head>
   <title>Re-registeration 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="scc" 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 class="flex flex-row justify-between gap-3">
         Email-id:
```

Semester Re-register



6 Profit or Loss

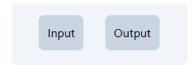
6.1 Aim

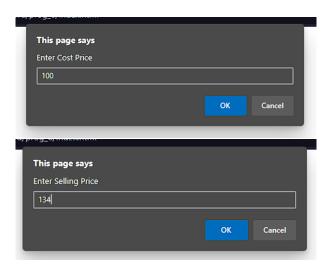
- Write a JavaScript solution for the following
- Accept the cost price and selling price with a button
- Create a button to calculate the loss or profit and display it

```
<!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"
       >
      </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>
```

Profit Calculator





Profit Calculator



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

```
<!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()
       Specify Connection Type:
       <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>
       Specify House Type:
       <div class="flex flex-row gap-3">
         <input name="house" type="radio" value="gov" >
           government house
         <input name="house" type="radio" value="private" >
           private house
         </input>
       <div class="flex flex-row justify-between">
         Name:
         <input
           class="w-3/4 rounded-md text-center"
           type="text"
           placeholder=" Enter your name"
```

```
/>
       </div>
       <div class="flex flex-row justify-between">
         Email:
         <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-1 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>
```

Electrical Connection Form



8 Word Search

8.1 Aim

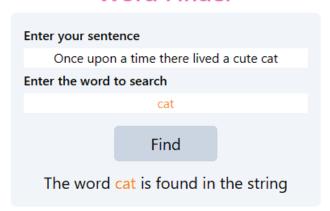
- Write a JavaScript Program to search for a word in a sentence
- the search should be performed when a appropriate button is clicked

```
<!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">
       Enter your sentence
       <input type="text" id="sentence" class="text-center"/>
       Enter the word to search
       <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

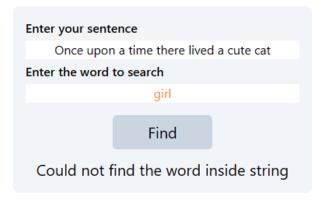
    text-x1"

         onclick=result()
       > Find </button>
       </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>
```

Word Finder



Word Finder



9 Prime and Armstrong

9.1 Aim

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

```
<!DOCTYPE html>
<html>
 <head>
   <title>Prime or Armstrong?</title>
   <script src="https://cdn.tailwindcss.com"></script>
 <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">
         Enter a number
         <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-x1"
           onclick=is_prime()
         > Prime? </button>
         <br/>button
           class="p-2 bg-slate-300 hover:bg-slate-200 w-32 rounded-md text-x1"
           onclick=is_armstrong()
         > Armstrong? </button>
       </div>
       </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;
```

Prime or Armstrong



Prime or Armstrong



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">
         Enter the number of terms
         <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-x1

         onclick=getseries()
       > Find </button>
       </div>
   </section>
   <script>
     function getseries() {
       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);</pre>
     }
   </script>
 </body>
</html>
```

10.3 Output

Fibonacci Series



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>
 <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">
         Name:
         <input
           class="w-3/4 rounded-md text-center"
           name="name"
           type="text" required
         />
       </div>
       <div class="flex flex-row justify-between">
         Enrollment No.:
           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>
```

```
<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>
```





Login Successful

12 First Vowel

12.1 Aim

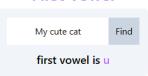
• Write a JavaScript program to find the first vowel in a string

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>
   </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

First Vowel



13 Basic Calculator

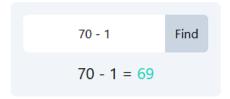
13.1 Aim

• Write a JavaScript program implementing a Simple Calculator

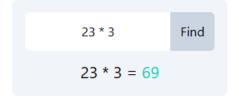
```
<html>
 <head>
   <title>Basic Calculator</title>
    <script src="https://cdn.tailwindcss.com"></script>
 </head>
 <body>
    <section class="w-full h-screen flex flex-col justify-center items-center">
     <h1 class="text-3xl font-semibold text-teal-400 mb-2">Calculator</h1>
     <div class="bg-slate-100 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>
    </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>
```



Calculator



Calculator



Calculator



14 Company Profile Form

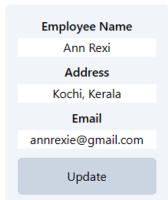
14.1 Aim

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

```
<!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">
        Employee Name
        <input
          type="text" id="name" value="Ann Rexi"
          class="text-center" required
        />
        Address
          type="text" id="addr" value="Kochi, Kerala"
          class="text-center" required
        Email
          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
           \hookrightarrow 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">
        </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'>"
```

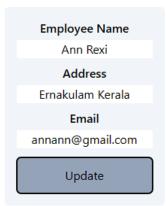
```
output[0].innerHTML = "Employee: " + style + name + "</a>"
output[1].innerHTML = "Address: " + style + addr + "</a>";
output[2].innerHTML = "Email: " + style + email + "</a>";
}
</script>
</body>
</html>
```

Company Form



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

Company Form



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

15 Random Number

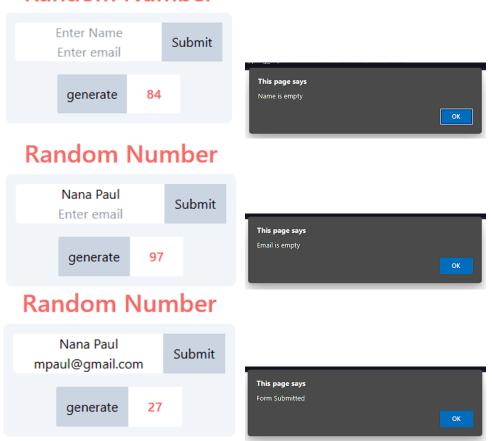
15.1 Aim

- 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

```
<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"</pre>
            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
            onclick=random()
          > generate </button>
          class="bg-white flex flex-col justify-center p-3 pl-6 pr-6 text-red-400
            \hookrightarrow font-semibold"
          > 84 
        </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>
```

Random Number



16 Company Login page

16.1 Aim

- Design a login page of a company
- with feilds 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
        \rightarrow 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">
         Name:
         <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">
         Password:
           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</pre>

    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</pre>

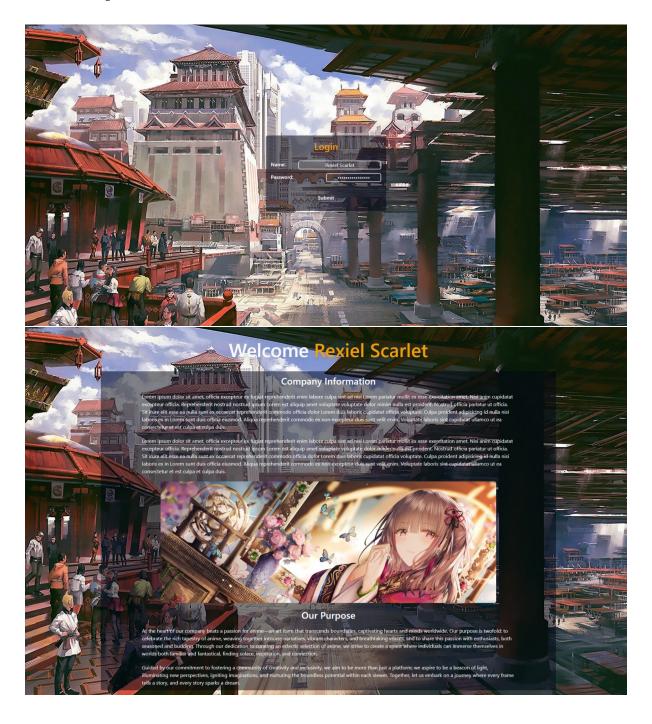
→ text-slate-50 w-3/4 items-center rounded-sm">

        <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
          \rightarrow labore culpa sint ad nisi Lorem pariatur
          mollit ex esse exercitation amet. Nisi anim cupidatat excepteur officia.
          \rightarrow Reprehenderit nostrud nostrud ipsum Lorem est
          aliquip amet voluptate voluptate dolor minim nulla est proident. Nostrud
          \rightarrow 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
          \rightarrow eiusmod. Aliqua reprehenderit commodo ex non
          excepteur duis sunt velit enim. Voluptate laboris sint cupidatat ullamco ut
          \rightarrow ea consectetur et est culpa et culpa duis.
        p class="w-5/6">
          Lorem ipsum dolor sit amet, officia excepteur ex fugiat reprehenderit enim
          \rightarrow labore culpa sint ad nisi Lorem pariatur
          mollit ex esse exercitation amet. Nisi anim cupidatat excepteur officia.
          \rightarrow Reprehenderit nostrud nostrud ipsum Lorem est
          aliquip amet voluptate voluptate dolor minim nulla est proident. Nostrud
          \ \hookrightarrow \  officia pariatur ut officia. Sit irure elit
          esse ea nulla sunt ex occaecat reprehenderit commodo officia dolor Lorem
          \hookrightarrow duis laboris cupidatat officia voluptate. Culpa
          proident adipisicing id nulla nisi laboris ex in Lorem sunt duis officia
          \rightarrow eiusmod. Aliqua reprehenderit commodo ex non
          excepteur duis sunt velit enim. Voluptate laboris sint cupidatat ullamco ut
          \rightarrow ea consectetur et est culpa et culpa duis.
        <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
          \rightarrow anime, weaving together intricate narratives,
          vibrant characters, and breathtaking visuals, and to share this passion with
          → enthusiasts, both seasoned and budding.
```

```
Through our dedication to curating an eclectic selection of anime, we strive
          immerse themselves in worlds both familiar and fantastical, finding solace,
          \hookrightarrow inspiration, and connection.
        p class="w-5/6">
         Guided by our commitment to fostering a community of creativity and
          \rightarrow inclusivity, we aim to be more than just a platform;
         we aspire to be a beacon of light, illuminating new perspectives, igniting
          \begin{subarray}{ll} \end{subarray} 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.
        </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>
```



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)

```
<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-3x1 text-blue-400 font-semibold mb-2">Register</h1>
        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

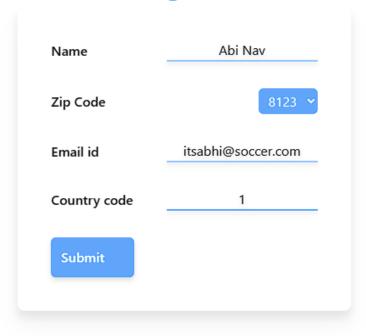
           *:items-center"
      >
        <div>
          Name
          <input type="text"</pre>
            name="name"
            class="text-center font-normal focus:outline-none border-b-2
               border-blue-300 focus:border-blue-400 drop-shadow-md bg-transparent"
          />
        </div>
        <div>
          Zip Code
          <select class="font-normal bg-blue-400 rounded-md px-2 py-1 text-white</pre>
          → focus:outline-none">
            <option>2018</option>
            <option>8123</option>
            <option>1243</option>
          </select>
        </div>
        <div>
          Email id
          <input type="email"</pre>
            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"</pre>
            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>
       <input type="submit"</pre>
        class="bg-blue-400 hover:bg-blue-500 w-[100px] text p-3 rounded-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>
```

Register



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

```
<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">
            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
            class="cls bg-cyan-400 p-3 pl-4 pr-4 rounded-md"
         > Class 
        <div class="flex flex-row p-3 gap-2 justify-evenly">
          <label for="slection" class="text-rose-400 font-semibold text-xl"> What to
          → hide? </label>
          <select name="selection" class="text-rose-400 text-center font-semibold</pre>

→ 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(); }
```

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





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)

```
<html>
 <head>
   <title>Railway Booking</title>
   <script src="https://cdn.tailwindcss.com"></script>
 <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
      \hookrightarrow to them -->
     <form class="bg-zinc-50 flex flex-col p-4 gap-3 drop-shadow-xl *:flex *:flex-row</pre>
      → *: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
                \hookrightarrow rounded-full"
             />
             Male
           <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
                \hookrightarrow rounded-full"
              />
              Female
            </label>
            <label class="flex flex-row p-2 gap-2 items-center">
                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>
```

