

**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>
  <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 R E A K	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

## 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:

Gender: ☒ male ☐ female ☐ other

Date of Birth:

Address:

Favourite Language: ☐ Java ☐ C ☒ Rust

Favourite Singer:

Favourite Movie:

Email Id:

Password:

## 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="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>

      <div class="flex flex-row justify-between gap-3">
        Email-id:
```

```
        <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:

Regional centre code:

Study centre code:

Semester:

Email-id:



## 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

This page says

Enter Cost Price

100

OK

Cancel

This page says

Enter Selling Price

134

OK

Cancel

## 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>
      </form>
    </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:**

**Email:**

## 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

cat

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

girl

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

153 is ARMSTRONG

#### Prime or Armstrong

Enter a number

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=getseries()
      > Find </button>
      <p id="output" class="text-xl text-center"></p>
    </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);
    }
  </script>
</body>
</html>
```

### 10.3 Output

**Fibonacci Series**

Enter the number of terms

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:

Enrollment No.:

**Welcome Zid Heart**  
Login Successful

## 12 First Vowel

### 12.1 Aim

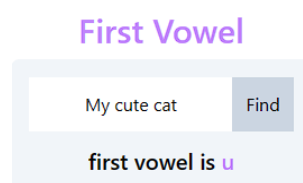
- Write a JavaScript program to find the first vowel in a string

### 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

Find

$1 + 2 = 3$

Calculator

Find

$70 - 1 = 69$

Calculator

Find

$23 * 3 = 69$

Calculator

Find

$480 / 2 = 240$

## 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
Update

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

#### Company Form

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

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>

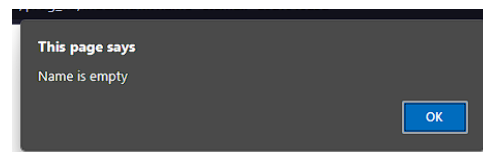
```

---

### 15.3 Output

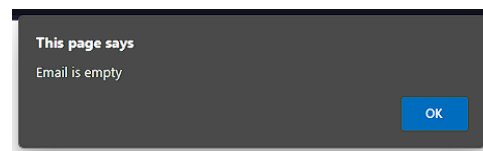
#### Random Number

84



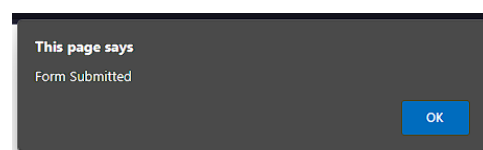
#### Random Number

97



#### Random Number

27



## 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
        ↪ 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>
  </div>

```

```

    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>
  <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	Abi Nav
Zip Code	8123 ▼
Email id	itsabhi@soccer.com
Country code	1

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

Element

Id

Class

What to hide?

none

▼

### Jquery Hide

Id

Class

What to hide?

element

▼

### Jquery Hide

Element

Class

What to hide?

id

▼

### Jquery Hide

Element

Id

What to hide?

class

▼