B.S. Abdur Rahman®
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

LAB RECORD

CAD 3108 – FULL STACK TECHNOLOGIES LABORATORY

NAME : _____

RRN : _____

SEMESTER : _____

DEGREE/BRANCH : _____

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BONAFIDE CERTIFICATE

This is a Certified Record Book of : _____

RRN:_____ submitted for the Semester End

Practical Examinations held on _____ , for the CAD 3108

FULL STACK TECHNOLOGIES LABORATORY during 2024-2025

(Odd Semester)

_____

SIGNATURE OF FACULTY IN-CHARGE

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EX NO: 1

DATE:

Basic HTML Tags

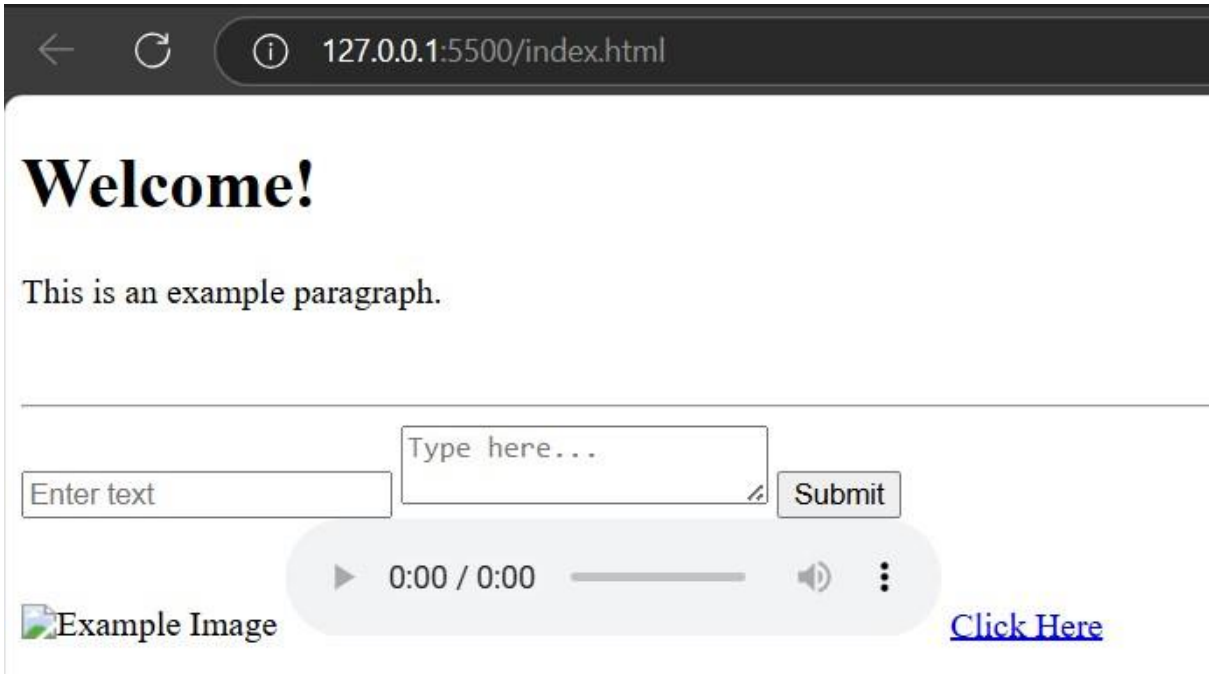
Aim:

To write an HTML code implementing Basic HTML tags.

Code:

```
<!DOCTYPE html>
<html> <head>
  <title>HTML Tags Demo</title>
</head>
<body>
  <h1>Welcome!</h1>
  <p>This is an example paragraph.</p>
  <br>
<hr>
  <!-- This is a comment -->
  <form>
    <input type="text" placeholder="Enter text">
    <textarea placeholder="Type here..."></textarea>
    <button type="submit">Submit</button>
  </form>
  <img src="image.jpg" alt="Example Image">
  <audio controls>
    <source src="audio.mp3" type="audio/mpeg">
    Your browser does not support the audio element.
  </audio>
  <a href="#">Click Here</a>
</body>
</html>
```

Output:



Result:

The implementation of basic HTML tags were successful.

EX NO: 2

DATE:

Background and Text Style in HTML

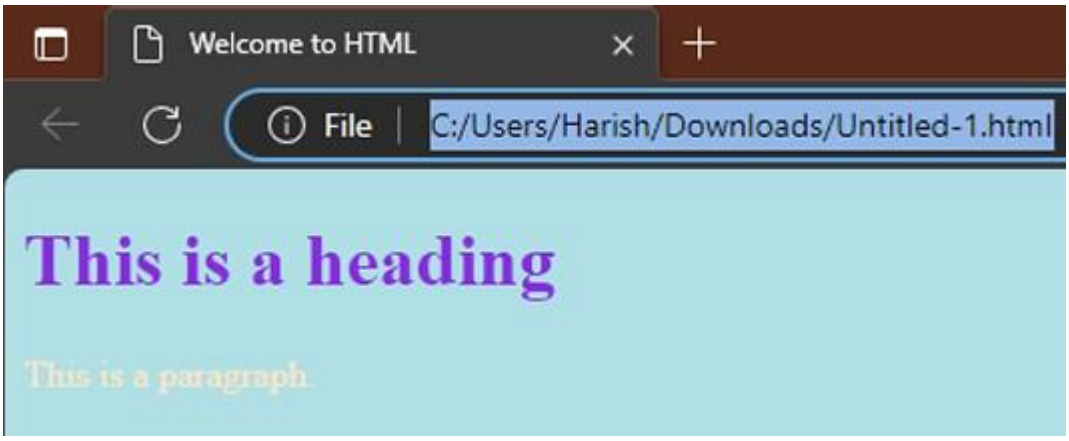
AIM:

To change the background colour and style of text in HTML.

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to HTML</title>
</head>
<body style="background-color:powderblue;">
  <h1 style="color: blueviolet;">This is a heading</h1>
  <p style="color: bisque;">This is a paragraph.</p>
</body>
</html>
```

Output:



Result:

The background colour and text style has been changed successfully.

EX NO: 3 # Adding Multimedia to Webpage

DATE:

Aim:

To add media on HTML webpage.

Code:

```
<!DOCTYPE html>
<html>  <head>
  <title>Page Title</title>
</head>
<body>
  <h2>Click play button to play video</h2>
<video src="test.mp4" controls></video>
  <h2>Click play button to play audio</h2>
  <audio src="test.mp3" controls></audio>
</body>
</html>
```

Output:

Result:

Successfully added media to webpage.

EX NO: 4 **Login Validation Form Using HTML and JS**

DATE:

Aim:

To create an HTML form with login validation using JS.

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Simple Login Form</title>
</head>
<body>
  <h2>Login Form</h2>
  <form id="loginForm">
    <label for="username">Username:</label>
    <input type="text" id="username" required><br>

    <label for="password">Password (Alphanumeric):</label>
    <input type="password" id="password" required>
    <div id="passwordMessage" style="color: red;"></div><br>
    <button type="button" onclick="login()">Login</button>
  </form>
  <div id="message"></div>
  <script>
function login() {
      var username = document.getElementById("username").value;
var password = document.getElementById("password").value;        var
passwordMessage =
document.getElementById("passwordMessage");
if (!/^[a-zA-Z0-9]+$/.test(password)) {
```

```
passwordMessage.innerHTML = "Password must be
alphanumeric.";        } else {
        passwordMessage.innerHTML = "";
      }
      if (username === "your" && password === "password1") {
document.getElementById("message").innerHTML = "Login
successful!";        } else {
        document.getElementById("message").innerHTML = "Invalid
username or password. Please try again.";
      }
    }
  </script>
</body>
</html>
```

Output:

Result

Successfully created a form with login validation.

EX NO: 5

DATE:

Bio-Data form using HTML and Angular JS

Aim:

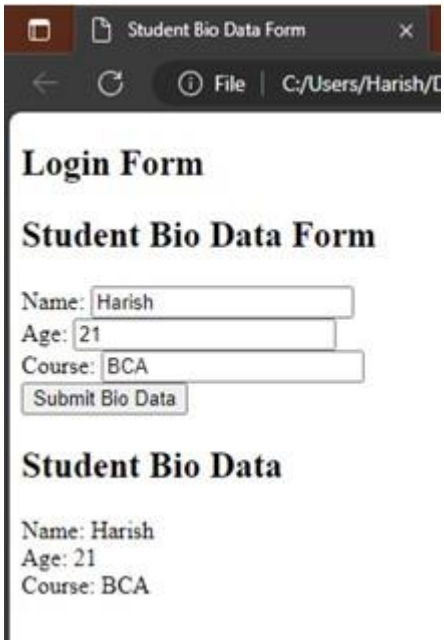
To create a form which takes bio-data from user using HTML and JS.

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Student Bio Data Form</title>
</head>
<body>
  <h2>Login Form</h2>
  <div id="bioDataForm" style="display: block;">
    <h2>Student Bio Data Form</h2>
    <form id="studentForm">
      <label for="name">Name:</label>
      <input type="text" id="name" required><br>

      <label for="age">Age:</label>
      <input type="text" id="age" required><br>

      <label for="course">Course:</label>
      <input type="text" id="course" required><br>

      <button type="button" onclick="displayBioData()">Submit
BioData</button>
    </form>

    <div id="bioData"></div>
  </div>
```

```
  <script>
    function displayBioData() {
      var name = document.getElementById("name").value;
var age = document.getElementById("age").value;        var
course = document.getElementById("course").value;


      var bioData = "Name: " + name + "<br>Age: " + age +
"<br>Course: " + course;
      document.getElementById("bioData").innerHTML = "<h2>Student
Bio Data</h2>" + bioData;
    }
  </script>
</body>
</html>
```

Output:



Result:

Successfully created form to take bio-data from user using Angular JS.

EX NO: 6

DATE:

E- Commerce Website Using React JS

Aim:

To create an E-Commerce website using React JS.

CODE:

```
import React, { useState } from 'react';
import './App.css'; const App = () => {
  const [cart, setCart] = useState([]);
const products = [
    { id: 1, name: 'Product 1', price: 10, image:
'minervaseries.png' },
    { id: 2, name: 'Product 2', price: 20, image:
'minervaseries.png' },
    { id: 3, name: 'Product 3', price: 30, image:
'minervaseries.png' }   ];
  const addToCart = (product) => {
setCart([...cart, { ...product }]);
  };
return (
    <div className="App">
      <h2>Products</h2>
      <ul>
        {products.map((product) => (
          <li key={product.id}>
            <img src={product.image} alt={product.name} width="50"
height="50" />
            {product.name} - ${product.price}
            <button onClick={() => addToCart(product)}>Add to
Cart</button>
          </li>
        ))}
</ul>
```

```
      <h2>Shopping Cart</h2>
      <ul>
        {cart.map((item, index) => (
          <li key={index}>
            <img src={item.image} alt={item.name} width="50"
height="50" />
            {item.name} - ${item.price}
          </li>
        ))}
      </ul>
    </div>
  ); };
export default App;
```

Output:

Result:

Successfully created an E-Commerce website using React JS.

EX NO: 7

DATE:

Website Using Node JS

Aim:

To create a Website using Node JS

Code:

```
import React, { useState } from 'react'; const App = () => {
const [tasks, setTasks] = useState([]);   const [task,
setTask] = useState('');   const addTask = () => {     if
(task) {       setTasks([...tasks, { title: task, completed:
false }]);       setTask('');
    }   };   const toggleComplete = (index) => {     const
newTasks = tasks.slice();     newTasks[index].completed =
!newTasks[index].completed;     setTasks(newTasks);
  };   const deleteTask = (index)
=> {     const newTasks =
tasks.slice();
newTasks.splice(index, 1);
setTasks(newTasks);
  };
return (
    <div>
      <h1>To-Do List</h1>
      <input
type="text"
value={task}
onChange={(e) =>
setTask(e.target.value)}
placeholder="New Task"
      />
      <button onClick={addTask}>Add Task</button>
      <ul>
        {tasks.map((t, index) => (
          <li key={index}>
```

```
            {t.title} - {t.completed ? 'Done' : 'Pending'}
            <button onClick={() => toggleComplete(index)}>Toggle
Complete</button>
            <button onClick={() =>
deleteTask(index)}>Delete</button>
          </li>
        ))}
      </ul>
    </div>
  ); }; export
default App;
```

Output:

Result:

Successfully created website using Node JS.