**ASSIGNMENT NO 3**

**WEB PROGRAMMING**

**REPOSITORY LINK:**

https://github.com/Hafsa-Irfan208/F219072\_WebProgramming\_6E\_course.git

**TASK 1:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Portfolio</title>

    <link href="https://fonts.googleapis.com/css2?family=Nunito:wght@400;600;700&display=swap" rel="stylesheet">

    <style>

        body, html {

            margin: 0;

            padding: 0;

            font-family: 'Nunito', sans-serif;

            background-color: #edf2f7;

            color: #333;

        }

        .navbar {

            background-color: #2b2d42;

            color: #edf2f7;

            padding: 20px 20px;

            display: flex;

            justify-content: space-between;

            align-items: center;

        }

        .navbar a, .navbar div {

            color: #edf2f7;

            text-decoration: none;

            padding: 10px;

        }

        .navbar img {

            height: 60px;

            width: 60px;

            border-radius: 50%;

        }

        .hero-section {

            background: #2b2d42;

            color: #edf2f7;

            padding: 20px 20px;

            text-align: center;

        }

        .hero-section img {

            max-width: 400px;

            border-radius: 50%;

            border: 4px solid #edf2f7;

            margin-bottom: 20px;

            height: 300px;

        }

        .content-section {

            padding: 40px 20px;

            text-align: center;

        }

        .skills-grid, .projects-grid {

            display: flex;

            flex-wrap: wrap;

            justify-content: center;

            gap: 20px;

        }

        .skill-card, .project-card {

            background-color: #fff;

            box-shadow: 0 4px 6px rgba(0,0,0,0.1);

            border-radius: 10px;

            padding: 20px;

            transition: transform 0.3s ease;

        }

        .skill-card:hover, .project-card:hover {

            transform: translateY(-5px);

        }

        .footer {

            background-color: #2b2d42;

            color: #edf2f7;

            text-align: center;

            padding: 20px;

            font-size: 14px;

        }

        .footer a {

            color: #edf2f7;

            text-decoration: none;

            margin: 0 10px;

        }

        .footer img {

            vertical-align: middle;

        }

        a {

            color: #ef233c;

            text-decoration: none;

        }

        a:hover {

            text-decoration: underline;

        }

    </style>

</head>

<body>

<div class="navbar">

    <div><img src="https://static.vecteezy.com/system/resources/previews/006/232/563/original/emblem-letter-h-gold-monogram-design-luxury-volumetric-logo-template-3d-line-ornament-for-business-sign-badge-crest-label-boutique-brand-hotel-restaurant-heraldic-illustration-vector.jpg" alt="Logo"></div>

    <div>

        <a href="#about">About</a>

        <a href="#skills">Skills</a>

        <a href="#projects">Projects</a>

        <a href="#contact">Contact</a>

    </div>

</div>

<div class="hero-section" id="about">

    <img src="C:\Users\hp\Desktop\f49ca49c-e3ef-4a53-81fe-8bd223c721c9.jpg" alt="Profile Picture">

    <h1>Welcome! I'm Hafsa Irfan</h1>

    <p>I'm a dedicated Computer Science student with a passion for technology and innovation. My journey in the tech world started when I was young, fascinated by how software could transform lives. Since then, I've embarked on a path of continuous learning, from coding simple programs to developing complex software solutions. Welcome to my portfolio where I showcase my projects, skills, and the milestones of my journey in tech.</p>

</div>

<div class="content-section" id="skills">

    <h2>Skills</h2>

    <div class="skills-grid">

        <div class="skill-card">

            <h3>Programming Languages</h3>

            <p>C++,Java, Python</p>

        </div>

        <div class="skill-card">

            <h3>Web Development</h3>

            <p>HTML, CSS, JavaScript, Bootstrap</p>

        </div>

        <div class="skill-card">

            <h3>Database Management</h3>

            <p>MySQL, MongoDB</p>

        </div>

        <div class="skill-card">

            <h3>Version Control</h3>

            <p>Git, GitHub</p>

        </div>

    </div>

</div>

<div class="content-section" id="projects">

    <h2>Projects I've Worked On</h2>

    <div class="projects-grid">

      <div class="project-card">

        <h3>Event Management System</h3>

        <p>An application designed to streamline the organization and management of events, integrating features such as attendee registration, schedule planning, and real-time notifications.</p>

        <img src="https://aveoninfotech.com/wp-content/uploads/2021/02/aveon-event-management-system-min.jpg" alt="Event Management System">

    </div>

    <div class="project-card">

        <h3>Potion Explosion Game Clone</h3>

        <p>A fun, interactive game developed as a personal project, inspired by the board game. It features complex logic for potion brewing mechanics and multiplayer support.</p>

        <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTfmQAKcCz4vMxq4MdZy0llcLyDFTpAJXzdEw&usqp=CAU " alt="Potion Explosion Game Clone">

    </div>

    <div class="project-card">

        <h3>Custom Text Editor</h3>

        <p>Built with Java, this text editor includes features like syntax highlighting, auto-complete, and file management, offering a lightweight alternative for coding projects.</p>

        <img src="data:image/png;base64," alt="Custom Text Editor">

    </div>

    </div>

</div>

<div class="footer" id="contact">

    <p>Let's connect!</p>

    <a href="mailto:f219072@cfd.nu.edu.pk" style="margin-right: 10px;">Send Email

        <img src="https://logowik.com/content/uploads/images/gmail-new-icon5198.jpg" alt="Email Logo" style="height: 24px; width: 24px;"></a>

    <a href="https://instagram.com/hafsa\_irfan208" target="\_blank" style="display: inline-block;"> Follow on Instagram

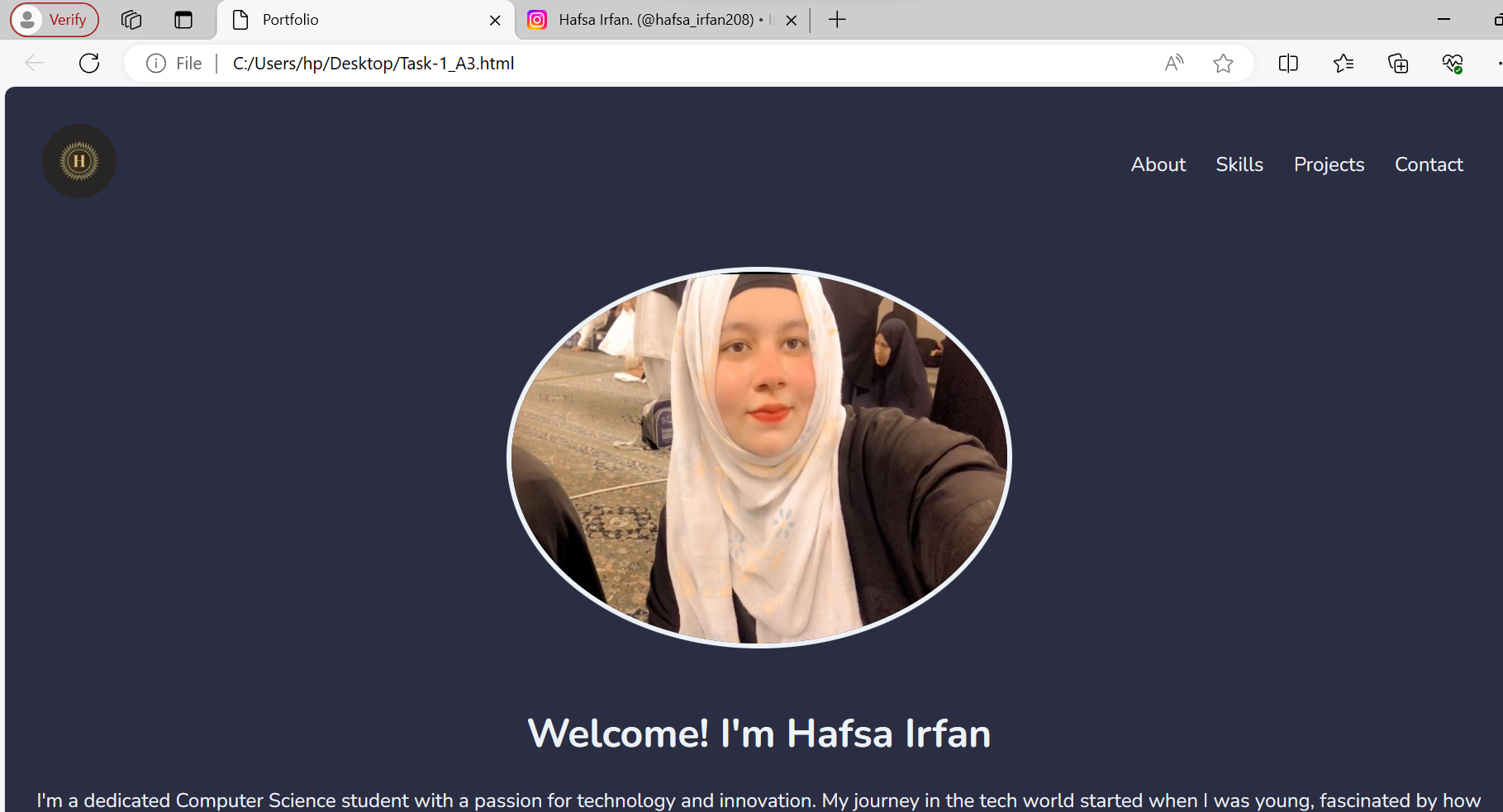
        <img src="https://upload.wikimedia.org/wikipedia/commons/thumb/9/95/Instagram\_logo\_2022.svg/800px-Instagram\_logo\_2022.svg.png" alt="Instagram Logo" style="height: 24px; width: 24px;">

    </a>

</div>

</body>

</html>



A screenshot of a computer

Description automatically generatedA circular chart with text and images

Description automatically generated with medium confidenceA screenshot of a game

Description automatically generated

A computer screen shot of a computer and a pencil

Description automatically generated

**Task 3:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Digital Clock</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <div id="clock">

        <div class="time-block" id="hours">00</div>

        <div class="time-block" id="minutes">00</div>

        <div class="time-block" id="seconds">00</div>

        <div class="time-block" id="period">AM</div>

    </div>

    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

    <script src="script.js"></script>

</body>

</html>

function updateClock() {

    var now = new Date();

    var hours = now.getHours();

    var minutes = now.getMinutes();

    var seconds = now.getSeconds();

    var period = "AM";

    if (hours >= 12) {

        period = "PM";

    }

    if (hours > 12) {

        hours = hours - 12;

    }

    if (hours === 0) {

        hours = 12;

    }

    $('#hours').text(("0" + hours).slice(-2));

    $('#minutes').text(("0" + minutes).slice(-2));

    $('#seconds').text(("0" + seconds).slice(-2));

    $('#period').text(period);

}

$(document).ready(function() {

    setInterval(updateClock, 1000);

});

body, html {

    height: 100%;

    margin: 0;

    display: flex;

    justify-content: center;

    align-items: center;

    font-family: 'Arial', sans-serif;

    background-color: #f3f3f3;

}

#clock {

    display: flex;

    background: white;

    padding: 20px;

    border-radius: 10px;

    box-shadow: 0 10px 20px rgba(0,0,0,0.2);

}

.time-block {

    padding: 20px;

    margin: 0 10px;

    text-align: center;

    border-radius: 5px;

    background: linear-gradient(to bottom, #08c, #0044cc);

    color: white;

}

.time-block#period {

    background: #0c8;

}

/\* Sample Media Query \*/

@media (max-width: 600px) {

    .time-block {

        padding: 10px;

        margin: 0 5px;

        font-size: 1.5em;

    }

}

A screenshot of a computer

Description automatically generated

TASK 4:

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Rock Paper Scissors Game</title>

    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>

<body>

<div style="text-align:center;">

    <h2>Let's Play Rock, Paper, Scissors!</h2>

    <div id="choices" style="margin: 20px;">

        <img src="C:\Users\hp\Desktop\rock.png" alt="Rock" class="choice" id="rock" style="width: 100px; cursor: pointer;">

        <img src="C:\Users\hp\Desktop\paper.png" alt="Paper" class="choice" id="paper" style="width: 100px; cursor: pointer;">

        <img src="C:\Users\hp\Desktop\scissor.png" alt="Scissors" class="choice" id="scissors" style="width: 100px; cursor: pointer;">

    </div>

    <div id="result" style="font-size: 1.5em;"></div>

</div>

<script>

    $(document).ready(function() {

    var userScore = 0;

    var computerScore = 0;

    $('.choice').click(function() {

        var userChoice = this.id;

        var computerChoice = getComputerChoice();

        var result = determineWinner(userChoice, computerChoice);

        updateScore(result);

        $('#result').html(`<p>Your choice: <strong>${capitalizeFirstLetter(userChoice)}</strong></p>

                           <p>Computer's choice: <strong>${capitalizeFirstLetter(computerChoice)}</strong></p>

                           <p><strong>${result}</strong></p>

                           <p>Your score: ${userScore} | Computer's score: ${computerScore}</p>`);

    });

    function getComputerChoice() {

        var choices = ['rock', 'paper', 'scissors'];

        var randomIndex = Math.floor(Math.random() \* 3);

        return choices[randomIndex];

    }

    function determineWinner(userChoice, computerChoice) {

        if (userChoice === computerChoice) {

            return "It's a tie!";

        }

        if ((userChoice === 'rock' && computerChoice === 'scissors') ||

            (userChoice === 'scissors' && computerChoice === 'paper') ||

            (userChoice === 'paper' && computerChoice === 'rock')) {

            return "You win!";

        }

        return "You lose!";

    }

    function updateScore(result) {

        if (result === "You win!") {

            userScore++;

        } else if (result === "You lose!") {

            computerScore++;

        }

    }

    function capitalizeFirstLetter(string) {

        return string.charAt(0).toUpperCase() + string.slice(1);

    }

});

</script>

</body>

</html>

A screenshot of a video game

Description automatically generated