


Department of Technical Education

FORMAT 4


Student's Daily Log Book

Day: 1	Date:
Time of Arrival:	Time of Departure:
Dept/Division: Software Development	Nature of work: Full Stack Development
Name of the Supervisor With designation and email ID:	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Briefly introduction of full Stack development✓ Briefly introduction of internship syllabus✓ Briefly explain of classes and internship guidelines✓ What is the importance of internship✓ Discussions About the today class doubts✓ Discussion About the Next Class/Session <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-2	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Installation of Visual Studio Code and Live server Extension download.✓ Discussion of HTML :-Hyper Text Markup Language it is used to structure and content of web pages. And Extension of html are (.html , .htm).✓ Discussion of HTML tags:- 1)Single tags:-this are also known as self-closing tags or void elements. EX:- <link>,<base>,
, etc.2)Double tags:-A paired tag, which is a tag that has both an opening and closing tag. EX:-bold tags , heading tags , paragraph tags etc.✓ <html lang=""> :-The lang attribute specifies the language of the element's content. Common examples are "en" for English, "es" for Spanish, "fr" for French and so on.✓ Head tag:-is an element that defines the head section of an HTML document. The head tag contains elements like:-<ul style="list-style-type: none">▪ Title:-Defines the document title,which appears in the browser's title bar.▪ Meta:- Defines the author, description, keywords, and character encoding.✓ Body tag:-is a fundamental element that defines the main content of an HTML document.✓ Header tags:-are used to separate headings and subheadings on a webpage. They rank in order of importance, from H1 to H6. Like :<h1>,<h2>.....<h6>.✓ paragraph tag:- is simply a block of text enclosed within the <p> tag.✓ Anchor tag:- creates a hyperlink to web pages, files, email addresses, locations in the same page, or anything else a URL can address." <a>✓ Media tags:- the additional information in the form of "<audio>,<video>,"✓ <hr>:- element is most often displayed as a horizontal rule.✓
:- it inserts line breaks in a text. It stands for "Break". <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-3	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>HTML Tags Example</title> </head> <body> <h1>Welcome to My Web Page</h1> <p>This is an example of various HTML tags.</p> <hr> <!-- Horizontal Line --> <p>This is the first paragraph.
This is the second paragraph with a line break.</p> <!-- Line Break --> Visit Example Website <!-- Hyperlink --> <hr></pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-3	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><h2>Audio Example</h2> <audio controls> <source src="audio.mp3" type="audio/mpeg"> Your browser does not support the audio tag. </audio> <hr> <h2>Video Example</h2> <video width="320" height="240" controls> <source src="video.mp4" type="video/mp4"> Your browser does not support the video tag. </video> </body> </html></pre>	
	
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Student's Daily Log Book

Day-4	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ formatting tags=<ul style="list-style-type: none">• b :- bold the text• strong :- to indicate text that is of strong importance or emphasis• i :- to indicate a span of text that should be displayed in an alternate voice or mood• em :- to indicate emphasized text• mark :- to highlight text within a page• sub :- defines subscript text• small :- to define smaller text, typically for displaying side comments like copyright information, disclaimers, or legal notices• del :- to indicate text that has been deleted from a document• ins :- to indicate text that has been inserted into a document• sup :-to add a superscript text to the HTML document✓ TABLE TAGS =<ul style="list-style-type: none">• tr :- to define a row in an HTML table• th :- to define table header cells in an HTML table• td :- to define a data cell in a table✓ LIST TAGS =<ul style="list-style-type: none">• ol :-to define an ordered list of items in a web page• ul :- to create an unordered list, which is a list of items that do not require a specific order• dl :- to implement a glossary or to display metadata (a list of key-value pairs) <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-4	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>HTML Formatting, Table, and List Example</title> </head> <body> <h1>HTML Formatting, Table, and List Example</h1> <!-- Formatting Tags --> <h2>Text Formatting</h2> <p>Bold Text</p> <p><i>Italic Text</i></p> <p><u>Underlined Text</u></p> <p>Strikethrough Text</p> <p>Strong Text</p> <p>Emphasized Text</p> <p><mark>Highlighted Text</mark></p> <p>H<sub>2</sub>O (Subscript)</p> <p>10<sup>2</sup> (Superscript)</p> <hr></pre>	
	
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Student's Daily Log Book

Day-5	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><!-- Table --> <h2>Sample Table</h2> <table border="1" cellpadding="5" cellspacing="0"> <tr> <th>Name</th> <th>Age</th> <th>City</th> </tr> <tr> <td>John</td> <td>25</td> <td>New York</td> </tr> <tr> <td>Sarah</td> <td>30</td> <td>Los Angeles</td> </tr> <tr> <td>Michael</td> <td>28</td> <td>Chicago</td> </tr> </table> <hr></pre>	
	
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Student's Daily Log Book

Day-5	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><!-- Lists --> <h2>Lists Example</h2> <h3>Ordered List</h3> Apple Banana Cherry <h3>Unordered List</h3> Red Blue Green <h3>Definition List</h3> <dl> <dt>HTML</dt> <dd>HyperText Markup Language</dd> <dt>CSS</dt> <dd>Cascading Style Sheets</dd> </dl> </body> </html></pre>	
	
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Student's Daily Log Book

Day-6	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Multimedia list:-Using tr , th & td you can create list in list we can add image and video,audio by the tags like:-,<audio>,<Video>.</p> <p>✓ Explain About The InputType Tags</p> <ol style="list-style-type: none">1. Text (): Accepts alphanumeric text input from the user.2. Password (): Accepts input but masks the characters for security.3. Email (): Accepts and validates email addresses.4. Search (): Used for search queries.5. Color (): Provides a color picker to select a color.6. Date (): Allows selecting a date from a calendar interface.7. Checkbox (): Lets users select or deselect an option.8. Radio (): Used for mutually exclusive selections (e.g., gender).9. Range (): Creates a slider to select a value within a range.10. File (): Allows users to upload a file.11. Image (): Acts as a graphical submit button.12. Submit (): Sends the form data to the server.13. Creates a scrolling text or image. Though widely supported, it's deprecated and replaced by modern CSS animations.14. Each tag is used to enhance user interaction and collect specific types of input. <p>✓ Explain About The Layout</p> <ol style="list-style-type: none">1. : Contains the title or logo, generally at the top of the page.2. : Contains the main content of the page.3. : Appears at the bottom, often used for copyright or contact info.	
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Student's Daily Log Book

Day-6	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">✓ Explain About The Image Tag<ul style="list-style-type: none">1. Attributes: Displays an image on the page.2. src: Specifies the image source (URL or file path).3. alt: Provides alternative text for accessibility and SEO.✓ Explain About The Collaboration Section (Using Divs):<ul style="list-style-type: none">1. : A container for grouping related content.2. Flexbox (display: flex): Arranges items in a flexible row or column layout.✓ Explain About The Article Tag ():<ul style="list-style-type: none">1. Represents self-contained content such as news or blogs.2. Can include headings, paragraphs, and multimedia.	
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Day-7	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Multimedia and Layout Example</title> <style> body { font-family: Arial, sans-serif; margin: 0; padding: 0; } header, footer { background-color: #333; color: white; text-align: center; padding: 15px; } .container { display: flex; padding: 20px; } .main-content { flex: 2; padding: 20px;</pre>	
	
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Student's Daily Log Book


Day-7	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre> } .sidebar { flex: 1; padding: 20px; background-color: #f4f4f4; } .media { text-align: center; margin: 20px 0; } img { max-width: 100%; height: auto; } </style> </head> <body> <!-- Header --> <header> <h1>Welcome to My Multimedia & Layout Page</h1> </header> <!-- Main Layout --> <div class="container"> <section class="main-content"></pre>	


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Student's Daily Log Book

Day-7	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p><h2>Main Content</h2></p> <p><p>This section contains multimedia elements like images, audio, and video.</p></p> <p><!-- Image --></p> <p><div class="media"></p> <p> <h3>Image Example</h3></p> <p> </p> <p></div></p> <p><!-- Audio --></p> <p><div class="media"></p> <p> <h3>Audio Example</h3></p> <p> <audio controls></p> <p> <source src="audio.mp3" type="audio/mpeg"></p> <p> Your browser does not support the audio tag.</p> <p> </audio></p> <p></div></p> <p><!-- Video --></p> <p><div class="media"></p> <p> <h3>Video Example</h3></p> <p> <video width="400" controls></p> <p> <source src="video.mp4" type="video/mp4"></p> <p> Your browser does not support the video tag.</p> <p> </video></p> <p></div></p> <p style="text-align: right;"></p> <p style="text-align: right;">Signature of Industry Supervisor</p>	

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Day-7	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><!-- Iframe --> <div class="media"> <h3>Embedded Video (YouTube)</h3> <iframe width="560" height="315" src="https://www.youtube.com/embed/dQw4w9WgXcQ" title="YouTube video player" frameborder="0" allowfullscreen> </iframe> </div> </section> <!-- Sidebar --> <aside class="sidebar"> <h2>Sidebar Section</h2> <p>This is the sidebar. You can place additional content here.</p> </aside> </div> <!-- Footer --> <footer> <p>&copy; 2025 My Website Designed with HTML & CSS</p> </footer> </body> </html></pre>	
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Day-8	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explain about css</p> <p>✓ Explain about types of CSS:-</p> <p>1. Internal CSS:- Internal CSS is CSS code that is written in the head section of the</p> <p>syntax:<style></p> <pre> selector{</pre> <pre> property: value;</pre> <pre> }</pre> <p></style></p> <p>2. External css:- a form of CSS which is used to add styling to multiple HTML pages at a time.</p> <p>syntax:-selector{</p> <pre> property: value;</pre> <pre> }</pre> <p>3. Inline CSS:-the technique to define the single element with the insert style sheets in an HTML document.</p> <p>syntax:-<tagname style="property: value;"></p> <p>Content goes here</p> <p></tagname></p> <p>✓ Explain about font properties:</p> <ol style="list-style-type: none">1. font-size:- used to specify the size of text on a webpage by utilizing the "size" attribute within the tag2. font-weight:- a CSS property that controls the thickness or boldness of text3. font-style:-a CSS property used to control the stylistic appearance of text4. font-family:-specifies which typeface (font) should be used to display text on a webpage5. font-variant:- controls whether text should be displayed in "small caps" format	


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Student's Daily Log Book

Day-8	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explain about Text properties:</p> <ol style="list-style-type: none">1. Color:- color is applied to elements using the "style" attribute within the HTML tag2. text-transform:- a CSS property that allows you to control the capitalization of text within an element3. text-decoration:- used for decorating the text in different ways4. text-indent:- Indentation is the blank space between the margin and the beginning of a line in a text block5. text-shadow:-allows you to add a visual shadow effect to text by defining its horizontal and vertical offset, blur radius, and color6. text-align:- used to set the horizontal alignment of a text7. letter-spacing:- sets or returns the spacing between words in a text.8. word-spacing:- sets or returns the spacing between words in a text.9. line-height:- The line-height attribute controls the space between lines in a paragraph	
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Student's Daily Log Book

Day-9	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>Example</p> <pre>/* External CSS */ body { font-family: Arial, sans-serif; background-color: #f0f0f0; margin: 0; padding: 0; } .container { width: 80%; margin: auto; background: white; padding: 20px; box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1); } h1 { color: #333; text-align: center; font-size: 2.5em; } p { font-size: 18px; line-height: 1.6; color: #555;</pre>	
	
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Student's Daily Log Book

Day-9	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>} /* Text Formatting */ .bold-text { font-weight: bold; } .italic-text { font-style: italic; } .underline-text { text-decoration: underline; } .strikethrough-text { text-decoration: line-through; } .center-text { text-align: center; } .colored-text { color: blue; } .shadow-text { text-shadow: 2px 2px 5px gray; }</pre>	
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Student's Daily Log Book

Day-10	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Expain about Background properties:-</p> <ol style="list-style-type: none">1. background-color:- Defines the background color of an element. Example:-background-color: #ff0000; /* Red */2. background-image:- Specifies one or more background images for an element. Example:-background-image: url('image.jpg');3. background-repeat:- Controls whether the background image should repeat horizontally, vertically, or not at all.Possible values: repeat, no-repeat, repeat-x, repeat-y. Example:-background-repeat: no-repeat;4. background-size:- Defines the size of the background image. Can be set in pixel values, percentages, or keywords like cover and contain. Example:-background-size: cover;5. background:linear-gradient:- A shorthand for setting a linear gradient as a background image. You specify the direction and color stops. Example:-background: linear-gradient(to right, red, yellow);6. background:radial-gradient:- A shorthand for setting a radial gradient as a background image. You define the shape, size, and color stops. Example:-background: radial-gradient(circle, red, yellow); <p>✓ Expain about how to add css to button</p> <ol style="list-style-type: none">1. margin:Sets the space outside the border of an element. Example:-margin: 20px; /* 20px margin on all sides */2. padding:Defines the space inside the border, between the element's content and its border.Example:-padding: 10px; /* 10px padding on all sides */ <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-11	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>Example</p> <pre>/* Background Properties */ body { font-family: Arial, sans-serif; background-image: url('https://via.placeholder.com/1500x800'); /* Background Image */ background-size: cover; background-position: center; background-attachment: fixed; margin: 0; padding: 0; } /* Container */ .container { width: 80%; margin: 50px auto; background: rgba(255, 255, 255, 0.8); }</pre>	
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Student's Daily Log Book

Day-11	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>padding: 20px; border-radius: 10px; box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.3); } /* Button Styling */ .button { display: inline-block; padding: 12px 20px; background-color: #007bff; color: white; text-decoration: none; font-size: 18px; border-radius: 5px; border: none; cursor: pointer; transition: background 0.3s, transform 0.2s; } /* Pseudo-classes for button */</pre> 	
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Day-11	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>.button:hover { background-color: #0056b3; transform: scale(1.1); } .button:active { background-color: #004080; transform: scale(0.9); } /* Pseudo-elements */ p::first-letter { font-size: 2em; color: red; font-weight: bold; } /* CSS Selectors */ h2 { color: darkblue;</pre>	
	
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Student's Daily Log Book

Day-12	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>text-align: center; } p { font-size: 18px; line-height: 1.6; } /* Class Selector */ .text-highlight { background-color: yellow; padding: 5px; } /* ID Selector */ #unique-text { color: green; font-weight: bold; } /* Universal Selector */ * {</pre>	
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Day-12	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre> box-sizing: border-box; } /* Attribute Selector */ input[type="text"] { padding: 8px; border: 2px solid #007bff; border-radius: 5px; width: 100%;</pre>	
	
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Student's Daily Log Book


Day-13	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ol style="list-style-type: none">1. border:Specifies the border of an element, including its width, style, and color. Example:-border: 2px solid black; /* 2px wide solid black border */2. border-radius:Defines the rounding of the corners of an element's border box. Example:- border-radius: 10px; /* 10px rounded corners */3. outline:Similar to border, but it doesn't take up space in the layout. Example:-outline: 3px dashed red; /* 3px dashed red outline */ <p>✓ Explain about selector</p> <ol style="list-style-type: none">1. Element selector:-accessing with the help of 'element' operator. like-body,h1 & p ,etc.2. Class selector:- accessing with the help of '.' operator.3. id selector:-accessing with the help of '#' operator.4. universal selector:-accessing with the help of '*' operator.5. generic selector:-accessing with the all document where the same class selector with '.' operator. <p>✓ Explain about Sudo class</p> <ol style="list-style-type: none">1. hover:-Applied when the user hovers the mouse pointer over an element. Example:a:hover { color: red; /* Changes the color of a link when hovered */ }2. Active:-Applied when an element is being activated by the user, such as when a button is clicked or a link is being followed. Example:button:active { transform: scale(0.95); /* Shrinks the button when clicked */ }3. Visited:-Applied to links that the user has already visited. Example: a:visited { color: purple; /* Changes the color of visited links */ }	


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Student's Daily Log Book

Day-13	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explain about Display Properties</p> <ul style="list-style-type: none">• display:inline:- tells the element to fit itself on the same line.• display:inline-block:- defines an element's appearance and behavior.• display:block:- used to change the default behavior of an element from inline to block-level.• display:flex:- enables the flexbox layout mode, allowing you to manipulate elements' alignment, spacing, and order within a container.• display:grid:- defines a website element as a grid container.• grid-area:- specifies a grid item's size and location in a grid layout.• grid-template-areas:- specifies areas within the grid layout.• grid-template-rows:- specifies the number (and the heights) of the rows in a grid layout.• grid-template-columns:- specifies the number (and the widths) of columns in a grid layout.• gap:- an empty space or interval; interruption in continuity. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-14	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explain about Position properties</p> <ul style="list-style-type: none">• Position:relative:- positioned relative to its normal position.• Position:absolute:- positioned relative to the nearest positioned ancestor• Position:fixed:- positions an element relative to the viewport, so it stays in the same place even when the page is scrolled• Position:sticky:- select the position: sticky option and scroll this container. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-14	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Example</p> <pre>/* General Styles */ body { font-family: Arial, sans-serif; margin: 0; padding: 0; background-color: #f4f4f4; } /* Navbar Container */ .navbar { display: flex; flex-direction: row; /* Default direction */ flex-wrap: wrap; /* Wrap items if needed */ justify-content: space-between; align-items: center; background-color: #333; padding: 10px 20px; transition: all 0.3s ease-in-out; } /* Logo */ .navbar .logo { font-size: 24px; color: white; font-weight: bold; text-decoration: none;</pre>	
	
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Student's Daily Log Book

Day-15	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>/* Navbar Links */ .navbar ul { display: flex; flex-wrap: wrap; list-style: none; padding: 0; margin: 0; } .navbar ul li { margin: 0 15px; } .navbar ul li a { text-decoration: none; color: white; font-size: 18px; transition: color 0.3s ease-in-out; } .navbar ul li a:hover { color: #ffcc00; } /* Responsive Navbar */</pre>	
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Student's Daily Log Book

Day-15	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>@media screen and (max-width: 768px) { .navbar { flex-direction: column; align-items: center; } .navbar ul { flex-direction: column; align-items: center; padding-top: 10px; } .navbar ul li { margin: 10px 0; } }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-16	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">✓ Explain about Navbar A navigation bar (Navbar) is a graphical interface element used to navigate a website or web application. It typically contains links to various sections or pages and is often displayed at the top or side of the webpage.✓ List-style-type:- The list-style-type CSS property specifies the style of the list item marker (e.g., bullet points or numbers) in ordered or unordered lists. Examples include disc, circle, square, and decimal.✓ Explain about Justify-content:- The justify-content CSS property aligns and distributes items along the main axis of a flex container. Common values include flex-start, center, space-between, and space-around, controlling the alignment of child items.✓ Explain about Flex-direction:- The flex-direction CSS property defines the direction in which flex container items are placed. It can take values such as row (default), column, row-reverse, and column-reverse.✓ Explain about Flex-wrap:- The flex-wrap property in CSS controls whether flex items should wrap onto multiple lines when there is not enough space. Possible values are nowrap (default), wrap, and wrap-reverse.✓ Explain about transition The transition property in CSS allows you to create smooth changes between styles when certain conditions (such as hovering or focusing) are met. It typically includes the property to be transitioned, the duration, and the timing function.	
	
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Student's Daily Log Book

Day-16	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>/* General Styles */ body { font-family: Arial, sans-serif; margin: 0; padding: 0; background-color: #f4f4f4; display: flex; justify-content: center; align-items: center; height: 100vh; } /* Container for Image */ .image-container { position: relative; width: 300px; height: 300px; overflow: hidden; border-radius: 50%; /* Circular Shape */ box-shadow: 0 0 15px rgba(0, 0, 0, 0.3); transition: transform 0.3s ease-in-out; } /* Image Styling */ .image-container img { width: 100%; height: 100%; display: block; object-fit: cover; }</pre>	



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Student's Daily Log Book


Day-17	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>/* Hover Effects */ .image-container:hover { transform: scale(1.1); /* Enlarges on Hover */ } /* Overlay Symbol */ .overlay-symbol { position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 50px; color: white; opacity: 0; transition: opacity 0.3s ease-in-out; } /* Show Symbol on Hover */ .image-container:hover .overlay-symbol { opacity: 1; } /* Shape Animation */ .shape { position: absolute; width: 50px; height: 50px; background-color: rgba(255, 255, 255, 0.7); border-radius: 50%; top: -10px;</pre>	


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Student's Daily Log Book

Day-17	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>left: -10px; opacity: 0; animation: move-shape 1s infinite alternate ease-in-out; } /* Shape Animation Keyframes */ @keyframes move-shape { 0% { transform: translateY(0); opacity: 0.5; } 100% { transform: translateY(20px); opacity: 1; } } /* Show Shape on Hover */ .image-container:hover .shape { opacity: 1; }</pre>	
	
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Student's Daily Log Book

Day-18	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Explain about how to add hover in navbar<ul style="list-style-type: none">• hover:-used to select elements when you mouse over them.✓ Explain about how to create symbols,element or shapes using html and css<ul style="list-style-type: none">• Symbol :- used to define graphical template objects which can be instantiated by a <use> element.• Elements:- a pair of opening and closing tags that define a specific component on a webpage.• Shapes:- specifies the shape of an area.✓ Explain about how to apply animation using html and css<ul style="list-style-type: none">• Animation:-The <animate> tag is a new and experimental HTML tag that creates animations for SVG graphics.✓ Explain about how to apply animation to imgage using html and css<ul style="list-style-type: none">• Animation:- use the <image> tag with the src attribute to add an animated image in HTML. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-18	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Bootstrap Navbar, Buttons, Form & Background</title> <!-- Bootstrap 5 CDN --> <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"> </head> <body class="bg-light"> <!-- Background Color --> <!-- Navbar --> <nav class="navbar navbar-expand-lg navbar-dark bg-dark"> <div class="container"> MySite <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data- bs-target="#navbarNav"> </button> <div class="collapse navbar-collapse" id="navbarNav"> <ul class="navbar-nav ms-auto"></pre>	
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Student's Daily Log Book

Day-19	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><li class="nav-item">Home <li class="nav-item">About <li class="nav-item">Services <li class="nav-item">Contact </div> </div> </nav> <!-- Main Content --> <div class="container mt-5"> <h2 class="text-center">Bootstrap Buttons</h2> <!-- Buttons --> <div class="text-center mt-3"> <button class="btn btn-primary">Primary</button> <button class="btn btn-secondary">Secondary</button> <button class="btn btn-success">Success</button> <button class="btn btn-danger">Danger</button> <button class="btn btn-warning">Warning</button> <button class="btn btn-info">Info</button> <button class="btn btn-dark">Dark</button> </div> <!-- Form Section --></pre>	
	
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Student's Daily Log Book

Day-19	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><h2 class="text-center mt-5">Contact Form</h2> <div class="row justify-content-center"> <div class="col-md-6"> <form class="p-4 border rounded bg-white shadow-sm"> <div class="mb-3"> <label for="name" class="form-label">Name:</label> <input type="text" class="form-control" id="name" placeholder="Enter your name"> </div> <div class="mb-3"> <label for="email" class="form-label">Email:</label> <input type="email" class="form-control" id="email" placeholder="Enter your email"> </div> <div class="mb-3"> <label for="message" class="form-label">Message:</label> <textarea class="form-control" id="message" rows="3" placeholder="Your message"></textarea> </div> <button type="submit" class="btn btn-primary w-100">Submit</button> </form> </div> </div> </div> </div></pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-19	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><!-- Bootstrap JS (for navbar toggle) --> <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js" ></script> </body> </html></pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-20	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Explain About How To Link the Vscode to Bootstrap Css Using Include via CDN✓ Explain about BootStrap Bootstrap is a popular open-source framework that provides pre-designed, responsive web components like grids, buttons, forms, and navigation bars.✓ Explain about how to create different buttons using bootstrap Bootstrap provides several classes to customize buttons. btn-primary (blue), btn-secondary (gray), btn-success (green), btn-danger (red), btn-warning (yellow), btn-info (light blue), btn-light (white), btn-dark (black), btn-link (button styled like a link).✓ Explain about how to create navbar using bootstrap A navbar (navigation bar) is a key component of any website, providing links to important sections. Bootstrap offers an easy and responsive way to create a navbar. Navbar Container, Navbar Brand, Navbar Links, and Responsive Navbar.✓ Explain about how to create Form using bootstrap Bootstrap provides a set of pre-designed classes and components to create responsive and stylish forms easily. Form Container, Form Group, Form Control, and Form Layout.✓ Explain about how to give background color using bootstrap Bootstrap provides a simple and efficient way to add background colors to various elements like sections, containers, and divs using predefined utility classes. bg-primary bg-secondary, bg-success, bg-danger, bg-warning, bg-info, bg-light, bg-dark, bg-white, bg-transparent. Card taps tots accodrtn	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-21	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Bootstrap Components</title> <!-- Bootstrap 5 CDN --> <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"> </head> <body class="bg-light"> <!-- Background Color --> <div class="container mt-5"> <!-- Tabs --> <h2 class="text-center mb-4">Bootstrap Tabs</h2> <ul class="nav nav-tabs" id="myTab" role="tablist"> <li class="nav-item" role="presentation"> <button class="nav-link active" id="home-tab" data-bs-toggle="tab" data-bs-target="#home" type="button" role="tab">Home</button> </pre>	
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Student's Daily Log Book

Day-21	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><li class="nav-item" role="presentation"> <button class="nav-link" id="profile-tab" data-bs-toggle="tab" data-bs- target="#profile" type="button" role="tab">Profile</button> <li class="nav-item" role="presentation"> <button class="nav-link" id="contact-tab" data-bs-toggle="tab" data-bs- target="#contact" type="button" role="tab">Contact</button> <div class="tab-content mt-3" id="myTabContent"> <div class="tab-pane fade show active" id="home" role="tabpanel">Welcome to the Home tab.</div> <div class="tab-pane fade" id="profile" role="tabpanel">This is the Profile tab.</div> <div class="tab-pane fade" id="contact" role="tabpanel">Get in touch via Contact tab.</div> </div> <!-- Cards --> <h2 class="text-center mt-5">Bootstrap Cards</h2> <div class="row"> <div class="col-md-4"> <div class="card"> <div class="card-body"></pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-22	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre> <h5 class="card-title">Card Title</h5> <p class="card-text">This is a simple card example.</p> Read More </div> </div> </div> <div class="col-md-4"> <div class="card"> <div class="card-body"> <h5 class="card-title">Card Title</h5> <p class="card-text">This is another card example.</p> Learn More </div> </div> </div> </div> <!-- Toast --> <h2 class="text-center mt-5">Bootstrap Toast</h2> <button class="btn btn-warning" id="showToast">Show Toast</button> <div class="toast-container position-fixed top-0 end-0 p-3"> <div class="toast align-items-center text-bg-primary border-0" id="liveToast" role="alert"> <div class="d-flex"> <div class="toast-body"> </pre> <div style="text-align: right; margin-top: 20px;">  </div> <p style="text-align: right;">Signature of Industry Supervisor</p>	

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Student's Daily Log Book

Day-22	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>This is a Bootstrap Toast Notification!</p> <pre></div> <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast"></button> </div> </div> </div> </div> <!-- Accordion --> <h2 class="text-center mt-5">Bootstrap Accordion</h2> <div class="accordion" id="accordionExample"> <div class="accordion-item"> <h2 class="accordion-header"> <button class="accordion-button" type="button" data-bs- toggle="collapse" data-bs-target="#collapseOne"> Section 1 </button> </h2> <div id="collapseOne" class="accordion-collapse collapse show" data-bs- parent="#accordionExample"> <div class="accordion-body"> This is the content of section 1. </div> </div> </div> <div class="accordion-item"></pre>  <p>Signature of Industry Supervisor</p>	

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Student's Daily Log Book

Day-23	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><h2 class="accordion-header"> <button class="accordion-button collapsed" type="button" data-bs- toggle="collapse" data-bs-target="#collapseTwo"> Section 2 </button> </h2> <div id="collapseTwo" class="accordion-collapse collapse" data-bs- parent="#accordionExample"> <div class="accordion-body"> This is the content of section 2. </div> </div> </div> </div> <!-- Carousel --> <h2 class="text-center mt-5">Bootstrap Carousel</h2> <div id="carouselExample" class="carousel slide" data-bs-ride="carousel"> <div class="carousel-inner"> <div class="carousel-item active"> </div> <div class="carousel-item"> </div> </div> </div></pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-23	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<div>Record Main actives of the day (including observation, sketches, discussions, etc)</div> <div></div> <div class="carousel-item"> </div> </div> <button class="carousel-control-prev" type="button" data-bs-target="#carouselExample" data-bs-slide="prev"> </button> <button class="carousel-control-next" type="button" data-bs-target="#carouselExample" data-bs-slide="next"> </button> </div> </div> <!-- Bootstrap JS (For Tabs, Toasts, Accordion, and Carousel) --> <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js" ></script> <script> // Show Toast Notification document.getElementById("showToast").addEventListener("click", function () { var toast = new bootstrap.Toast(document.getElementById("liveToast")); toast.show(); }); </script> </body> </html></div> <div> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-24	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Explain about how to create Cards using bootstrap Bootstrap provides a versatile Card component to display content in a flexible, responsive, and stylish way. Card Container, Card Body, Card Header, Card Footer and Card Image✓ Explain about how to create Tabs using bootstrap Bootstrap provides a simple way to create tabs that allow you to switch between different sections of content without navigating away from the page.✓ Explain about how to create Toast using bootstrap A toast in Bootstrap is a small, non-intrusive notification that provides feedback to users in a way that doesn't disrupt their activity. Toast container , Toast , Toast header and Toast body✓ Explain about use accodration using bootstrap An accordion in Bootstrap is a component that allows you to show and hide content sections dynamically. Accordion container , Accordion items, Accordion header and Accordion body✓ Explain About How To Create Carousel Using Bootstrap A carousel in Bootstrap is a component that allows you to display multiple pieces of content (such as images, text, or other elements) in a sliding, automatic manner Carousel Container: A wrapper that contains the carousel items and controls. Carousel Items , Carousel Controls , Carousel Indicators	
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Student's Daily Log Book

Day-25	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Operators in HTML, CSS, and JavaScript</title> <!-- CSS Operators --> <style> /* Adjacent Sibling Selector (+) */ h2 + p { color: red; } /* Direct Child Selector (>) */ div > p { font-weight: bold; } /* General Sibling Selector (~) */ h3 ~ p { color: blue; } /* Button Styling */ button</pre>	
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Student's Daily Log Book


Day-25	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<div>Record Main actives of the day (including observation, sketches, discussions, etc)</div> <div><div>margin: 10px; padding: 10px 20px; background-color: green; color: white; border: none; cursor: pointer; }</div><div></style></div><div><!-- JavaScript for Operators --></div><div><script></div><div>function arithmeticOperators() { let a = 10, b = 5; document.getElementById("arithmetic").innerHTML = ` Addition (10 + 5) = \${a + b}
 Subtraction (10 - 5) = \${a - b}
 Multiplication (10 * 5) = \${a * b}
 Division (10 / 5) = \${a / b}
 Modulus (10 % 5) = \${a % b} `; }</div><div>function comparisonOperators() { let x = 10, y = 5; document.getElementById("comparison").innerHTML = ` 10 == 5: \${x == y}
 10 != 5: \${x != y}
 10 > 5: \${x > y}
</div></div>	

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Student's Daily Log Book

Day-25	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>10 < 5: \${x < y}
 10 >= 5: \${x >= y}
 10 <= 5: \${x <= y} `; } function logicalOperators() { let a = true, b = false; document.getElementById("logical").innerHTML = ` true && false: \${a && b}
 true false: \${a b}
 !true: \${!a} `; } </script> </head> <body></pre>	
	
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Student's Daily Log Book

Day-26	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc) <ul style="list-style-type: none">✓ presentation of all over daily tasks which have been told to do✓ observation and review of given daily task.	
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Student's Daily Log Book

Day-27	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explain about project 1(OJ1)</p> <p>✓ Explain about Project implementation</p> <p>1. requirement collection</p> <ul style="list-style-type: none">○ Functional Requirement-> how it will work -functionality○ Non Functional Requirement -> Designing , theming , speed <p>2.mindmap :</p> <p>Miro :- An online collaborative whiteboard platform that allows teams to create mind maps, flowcharts, wireframes, and other diagrams together in real-time,</p> <p>Mermaid: A JavaScript-based diagramming and charting tool that allows you to create flowcharts, sequence diagrams, and other visualizations directly from text.</p> <p>3. flow chart:- A flowchart is a diagram representing a process, system, or algorithm. It shows the sequence of steps using various symbols (such as ovals for start/end, rectangles for processes, diamonds for decisions).</p> <p>4. architecture diagram:- Architecture diagrams describe the high-level structure of a system or solution. It includes the components, modules, services, and interactions between them.</p> <p>5.Database designing:- Database design involves structuring data in a way that supports efficient querying, storage, and management. It typically includes creating Entity-Relationship Diagrams (ERD), defining tables, keys, relationships, and normalizing data.</p> <p>6. designing - wire frames:- Wireframes are low-fidelity, skeletal versions of a website or app layout, showing elements like buttons, menus, content sections, etc.</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-28	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Explain about javascript<ul style="list-style-type: none">• Define:-frontend programming language. untyped programming language, Dynamically typed language.✓ Explain about the types of javascript<ul style="list-style-type: none">• External javascript• Internal javascript : head ,body - > <script>✓ Explain about the Variable<ul style="list-style-type: none">• variable is a name given to memory space where we are storing some value/data.✓ Explain about Rules or constraints to create a new variable:<ul style="list-style-type: none">• Must start with a letter,underscore or doller signs.• Can contain letters, numbers, underscores and doller signs.• It should not start with a letter.• Variable are cse sensitive: x and X - both are different.✓ Explain about declaration of variable let x; iniinitialization variable name="" console.log("name=", name)✓ Explain about Keywords in javascript<ul style="list-style-type: none">• let:- it is used to delcare a variable. it is block scoped. we can reinitialize let variables• var:- are Containers for Storing Data• const:- Variables defined with const cannot be Redeclared , Reassigned & have Block Scope <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-28	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Explain about Datatypes<ul style="list-style-type: none">• Number:-Represents both integer and floating-point numbers.• String:-Represents a sequence of characters enclosed in single or double quotes.• Boolean:-Represents a logical value, either true or false.• Null:-Represents the intentional absence of a value.• Undefined:- Represents a variable that has been declared but not assigned a value.• Object (Array, Function, Data, etc):-A collection of key-value pairs, where keys are strings and values can be of any data type. Arrays, functions, and dates are all considered objects in JavaScript.✓ Explain about Operators in javascript<ul style="list-style-type: none">• operator:-special symbol which we are using for perticular task• operand:-values that we want to operate (variables)-> here a and b are operands• expression:-combination of operators and operands (a+b)✓ Explain about Types of Operators:<ul style="list-style-type: none">• Arithmetic Operators (+, -, *, /, %)• Logical Operators (AND, OR, NOT)• Assignment Operators (=, +, -, *, /=, =)• Comparison Operators (>, <, >=, <=, ==, ===, !=, !==)• Ternary Operator (condition? true false)• Bitwise Operators (&, , ^, <<, >>)	
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Student's Daily Log Book


Day-29	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained briefly about the Operators</p> <p>1. Arithmetic Operators These are used for basic mathematical operations like addition, subtraction, multiplication, division, and modulus (remainder). (e.g., +, -, *, /).</p> <p>2. Relational (Comparison) Operators These operators compare two values and return a boolean (`true` or `false`) result. (e.g., ==, >, <).</p> <p>3. Logical Operators These are used to combine or modify boolean expressions. (e.g., &&, , !).</p> <p>4. Assignment Operators These are used to assign values to variables. (e.g., =, +=, -=).</p> <p>5. Bitwise Operators These are used to perform operations at the binary level. (e.g., &, , ^).</p> <p>6. Ternary (Conditional) Operator A shorthand for an `if-else` statement. (e.g., condition ? true_value : false_value).</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-29	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Conditional Statements in HTML (JavaScript)</title> <style> body { font-family: Arial, sans-serif; text-align: center; margin: 20px; } button { padding: 10px 15px; margin: 10px; background-color: green; color: white; border: none; cursor: pointer; } input { padding: 5px; margin: 10px; } #result { font-weight: bold; margin-top: 20px; } </pre>	


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Student's Daily Log Book

Day-29	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre> } </style> <script> function checkIf() { let number = parseInt(document.getElementById("inputNumber").value); if (number > 0) { document.getElementById("result").innerHTML = "The number is positive."; } } function checkIfElse() { let number = parseInt(document.getElementById("inputNumber").value); if (number > 0) { document.getElementById("result").innerHTML = "The number is positive."; } else { document.getElementById("result").innerHTML = "The number is zero or negative."; } } function checkNestedIf() { let number = parseInt(document.getElementById("inputNumber").value); if (number > 0) { if (number % 2 === 0) { document.getElementById("result").innerHTML = "The number is positive and even."; } else { document.getElementById("result").innerHTML = "The number is positive and odd.";</pre>	
	
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Day-30	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre> } } else { document.getElementById("result").innerHTML = "The number is not positive."; } } function checkElseIfLadder() { let marks = parseInt(document.getElementById("inputNumber").value); let grade; if (marks >= 90) { grade = "A+ (Excellent)"; } else if (marks >= 80) { grade = "A (Very Good)"; } else if (marks >= 70) { grade = "B (Good)"; } else if (marks >= 60) { grade = "C (Average)"; } else if (marks >= 50) { grade = "D (Pass)"; } else { grade = "F (Fail)"; } document.getElementById("result").innerHTML = "Your grade is: " + grade; } </script> </head> <body></pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-30	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p><h2>Conditional Statements in HTML (Using JavaScript)</h2></p> <p><label>Enter a Number / Marks:</label> <input type="number" id="inputNumber"></p> <p>
</p> <p><button onclick="checkIf()">Check If</button> <button onclick="checkIfElse()">Check If-Else</button> <button onclick="checkNestedIf()">Check Nested If</button> <button onclick="checkElseIfLadder()">Check Else-If Ladder</button></p> <p><p id="result"></p></p> <p></body></p> <p></html></p> <p></p> <p>Signature of Industry Supervisor</p>	

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Student's Daily Log Book

Day-31	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Explain about flow/conditional control statements.✓ conditional statements:<ul style="list-style-type: none">• if statement:- here we are checking only one condition and based on that we are displaying one statement syntax: if(condition-1) { statement }• if..else statement:- there we are checing both the scenario (+ve and ve) but here we are uing 2 statements• else if statement: here we are checking 2 or more statements syntax if (condition) { // code to execute if condition is true } else { // code to execute if condition is false }• nested if statement:- A nested if statement in JavaScript is an if statement that is placed inside another if statement. This allows you to create more complex conditional logic. syntax if (condition1) { // code to execute if condition1 is true if (condition2) { // code to execute if both condition1 and condition2 are true } else { // code to execute if condition1 is true but condition2 is false } } else { // code to execute if condition1 is false }	
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Student's Daily Log Book

Day-31	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">• else if ladder:- here we are going to use syntax: if(condition-1) { statement-1 } else if(condition-2) { Statement-2 } else { Statement-3 }✓ looping statement:- when ever we are repeating same set of lines in a program then we can use looping	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-32	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>Example</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Looping in HTML (Using JavaScript)</title> <style> body { font-family: Arial, sans-serif; text-align: center; margin: 20px; } button { padding: 10px 15px; margin: 10px; background-color: green; color: white; border: none; cursor: pointer; } #result { font-weight: bold; margin-top: 20px; } </style> <script> // <u>1</u> For Loop function forLoop() {</pre>	
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Day-32	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>let text = ""; for (let i = 1; i <= 5; i++) { text += "Iteration " + i + "
"; } document.getElementById("result").innerHTML = text; }</pre> <p>// ② While Loop</p> <pre>function whileLoop() { let text = ""; let i = 1; while (i <= 5) { text += "Iteration " + i + "
"; i++; } document.getElementById("result").innerHTML = text; }</pre> <p>// ③ Do-While Loop</p> <pre>function doWhileLoop() { let text = ""; let i = 1; do { text += "Iteration " + i + "
"; i++; } while (i <= 5); document.getElementById("result").innerHTML = text; }</pre>	


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Student's Daily Log Book

Day-33	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>//4 For-In Loop (Iterating an Object) function forInLoop() { let person = { name: "John", age: 25, city: "New York" }; let text = ""; for (let key in person) { text += key + ": " + person[key] + "
"; } document.getElementById("result").innerHTML = text; } //5 For-Of Loop (Iterating an Array) function forOfLoop() { let colors = ["Red", "Green", "Blue", "Yellow"]; let text = ""; for (let color of colors) { text += color + "
"; } document.getElementById("result").innerHTML = text; } </script> </head> <body> <h2>Looping in HTML (Using JavaScript)</h2> <button onclick="forLoop()">For Loop</button></pre>	
 Signature of Industry Supervisor	

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Day-33	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><button onclick="whileLoop()">While Loop</button> <button onclick="doWhileLoop()">Do-While Loop</button> <button onclick="forInLoop()">For-In Loop</button> <button onclick="forOfLoop()">For-Of Loop</button> <p id="result"></p> </body> </html></pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-34	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explained about Function Function is a block of a code which we are using for creating specific task and we will make use of function for the features like reusability and modularity. -> inordered to execute a function we required to call that function. Syntax:- function function_name(){ //statements }</p> <p>✓ Explained about Types of Function:</p> <ol style="list-style-type: none">1. Named functions:- Functions with a name defined explicitly, e.g., function add(a, b) { return a + b; }. Can be called by their name throughout the program.2. Anonamous function:- Functions that do not have a name, typically assigned to a variable, e.g., const add = function(a, b) { return a + b; };3. Arrow functions:- A concise syntax for writing functions, introduced in ES6, e.g., const add = (a, b) => a + b;. Arrow functions do not have their own this value, they inherit it from the surrounding context.4. IIFE (Immediately Invoked Function Expression):- A function that is defined and immediately executed. Typically used to create a private scope to avoid polluting the global namespace. e.g., (function() { console.log('Hello '); })();5. Callback or return type function:- A function passed as an argument to another function and executed at a later time, e.g., setTimeout(() => console.log('Hello'), 1000);. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-35	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Example</p> <pre>import java.util.Scanner; public class AllFunctions { // Function to find the maximum of two numbers public static int findMax(int a, int b) { return (a > b) ? a : b; } // Function to check if a number is even or odd public static boolean isEven(int num) { return num % 2 == 0; } // Function to calculate factorial using recursion public static int factorial(int n) { if (n == 0 n == 1) { return 1; } return n * factorial(n - 1); } // Function to reverse a string public static String reverseString(String str) { String reversed = ""; for (int i = str.length() - 1; i >= 0; i--) {</pre>	


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Day-35	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<div>Record Main actives of the day (including observation, sketches, discussions, etc)</div> <pre> reversed += str.charAt(i); } return reversed; } // Function to check if a number is prime public static boolean isPrime(int num) { if (num <= 1) { return false; } for (int i = 2; i <= Math.sqrt(num); i++) { if (num % i == 0) { return false; } } return true; } public static void main(String[] args) { Scanner scanner = new Scanner(System.in); // Input two numbers for max function System.out.print("Enter two numbers: "); int num1 = scanner.nextInt(); int num2 = scanner.nextInt(); System.out.println("Maximum: " + findMax(num1, num2)); // Input a number to check even/odd</pre>	




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Day-36	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>System.out.print("Enter a number to check even or odd: "); int number = scanner.nextInt(); System.out.println(number + (isEven(number) ? " is Even" : " is Odd")); // Input a number for factorial System.out.print("Enter a number to calculate factorial: "); int factNum = scanner.nextInt(); System.out.println("Factorial of " + factNum + " is " + factorial(factNum)); // Input a string to reverse System.out.print("Enter a string to reverse: "); scanner.nextLine(); // Consume newline String str = scanner.nextLine(); System.out.println("Reversed string: " + reverseString(str)); // Input a number to check if prime System.out.print("Enter a number to check if it's prime: "); int primeNum = scanner.nextInt(); System.out.println(primeNum + (isPrime(primeNum) ? " is a Prime Number" : " is not a Prime Number")); scanner.close(); }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-36	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explained about Array</p> <ul style="list-style-type: none">• Array:- is aspecial variable because variable can store more than one value.array is index based which will starts at 0th position and ends with n-1. <p>Syntax:- keywords(let , var , const) array_name=["v1","v2","v3"]</p> <p>✓ Explained about Array Operations</p> <ul style="list-style-type: none">• Push:-push is used to add new element at the end of existing array.• Pop:-pop is used to delete the element from the end of the array.• Shipt:-shift is used to delete the element from the starting point of the given array.• Unshipt:-unshift is used to add the element at the starting position of the array.• Splice:-this is used to delete some element in an array and add the new element in the place of deleted element. <p>Syntax:- array_name.splice(index no,of element to be deleted,replacing elements)</p> <ul style="list-style-type: none">• Sort:-used to sort the given array elements. <p>note:-sort will work properly with single digit element.</p> <ul style="list-style-type: none">• Reverse:-this method we will use to reverse the given array.• Map:-map method is used to calculate or apply all kind of operations for all the element present in given array. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-37	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>Example</p> <pre>import java.util.Scanner; public class ArrayOperations { // Function to find the maximum element in the array public static int findMax(int[] arr) { int max = arr[0]; for (int num : arr) { if (num > max) { max = num; } } return max; } // Function to find the minimum element in the array public static int findMin(int[] arr) { int min = arr[0]; for (int num : arr) { if (num < min) {</pre>	
	
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Day-37	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre> min = num; } } return min; } // Function to calculate the sum of elements in the array public static int calculateSum(int[] arr) { int sum = 0; for (int num : arr) { sum += num; } return sum; } // Function to reverse the array public static void reverseArray(int[] arr) { int left = 0, right = arr.length - 1; while (left < right) { int temp = arr[left];</pre> 	
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Day-37	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>arr[left] = arr[right]; arr[right] = temp; left++; right--; } } // Function to display the array elements public static void displayArray(int[] arr) { for (int num : arr) { System.out.print(num + " "); } System.out.println(); } public static void main(String[] args) { Scanner scanner = new Scanner(System.in); // Taking input for the array System.out.print("Enter the size of the array: "); int size = scanner.nextInt();</pre> 	
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Day-37	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>System.out.println("Enter " + size + " elements:"); for (int i = 0; i < size; i++) { arr[i] = scanner.nextInt(); } // Display original array System.out.print("Original Array: "); displayArray(arr); System.out.println("Maximum Element: " + findMax(arr)); System.out.println("Minimum Element: " + findMin(arr)); System.out.println("Sum of Elements: " + calculateSum(arr)); System.out.println("Average: " + (double) calculateSum(arr) / size); // Reverse and display reverseArray(arr); System.out.print("Reversed Array: "); displayArray(arr); scanner.close(); }</pre> <p style="text-align: right;"> Signature of Industry Supervisor</p>	

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Day-38	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

- ✓ **Explained about Dom(Document Object Model)**
it allows javascript to interact with HTML and CSS to create dynamic.
- ✓ **Explained about DOM Structure:tree Structure**
->each html element will work as a node of the tree


```
graph TD; Document[Document] --> Root[Root element: <html>]; Root --> Head[Element: <head>]; Root --> Body[Element: <body>]; Head --> Title[Element: <title>]; Title --> TitleText[Text: "My title"]; Body --> Href[Attribute: "href"]; Body --> A[Element: <a>]; Body --> H1[Element: <h1>]; A --> LinkText[Text: "My link"]; H1 --> HeaderText[Text: "My header"];
```


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Day-39	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained about Accession Elements:</p> <p>1.getElementById Const element_id=document.getElementById("id");</p> <p>2.getElementByClassName const elements = document.getElementsByClassName('myClass');</p> <p>3.getElementByTagName const elements = document.getElementsByTagName('div');</p> <p>4.getElementByquerySelector const element = document.querySelector('.myClass');</p> <p>5.getElementByquerySelectorAll const elements = document.querySelectorAll('div.myClass');</p> <p>✓ Explained about Modify Content Here's how you can modify the content of elements in the DOM:</p> <p>1.textContent:-You can change the text content of an element using the textContent property.</p> <p>2.innerHTML:-If you want to modify the HTML inside an element (including tags, not just plain text), you can use the innerHTML property.</p> <p>3.setAttributes:-You can change the attributes of an element using setAttribute(), or directly modify properties of elements (like src for an image).</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-39	Date:
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explained about Event Handling Event handling in HTML and JavaScript allows you to execute code in response to user actions or other events, such as clicks, key presses, mouse movements, form submissions, etc. There are several ways to handle events in JavaScript, and I'll guide you through the key concepts and examples.</p> <p>✓ Types of Events in HTML and JavaScript: Some common events are:</p> <ul style="list-style-type: none">• Mouse events: click, dblclick, mouseover, mouseout, etc.• Keyboard events: keydown, keyup, keypress• Form events: submit, change, focus, blur• Window events: load, resize, scroll• Touch events (for mobile): touchstart, touchend, touchmove <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-40	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Frontend coding for ojt-1</p> <pre> <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Hotel Management System</title> <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"> </head> <body> <div class="container mt-5"> <h1 class="text-center mb-4">Hotel Management System</h1> <ul class="nav nav-tabs" id="hotelTabs" role="tablist"> <li class="nav-item" role="presentation"> <button class="nav-link active" id="dashboard-tab" data-bs-toggle="tab" data- bs-target="#dashboard" type="button" role="tab">Dashboard</button> <li class="nav-item" role="presentation"> <button class="nav-link" id="bookings-tab" data-bs-toggle="tab" data-bs- target="#bookings" type="button" role="tab">Bookings</button> <li class="nav-item" role="presentation"> <button class="nav-link" id="guests-tab" data-bs-toggle="tab" data-bs- target="#guests" type="button" role="tab">Guests</button> </pre> <div style="text-align: right; margin-top: 20px;">  Signature of Industry Supervisor </div>	

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Student's Daily Log Book


Day-40	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><div class="tab-content mt-3"> <!-- Dashboard --> <div class="tab-pane fade show active" id="dashboard" role="tabpanel"> <div class="card"> <div class="card-body"> <h2 class="card-title">Rooms</h2> <input type="text" id="search" class="form-control mb-3" placeholder="Search rooms..."> <table class="table table-bordered"> <thead> <tr> <th>Room Number</th> <th>Type</th> <th>Status</th> </tr> </thead></pre>	
	
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Student's Daily Log Book


Day-41	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><tbody id="room-list"> <tr> <td>101</td> <td>Deluxe</td> <td>Available</td> </tr> <tr> <td>102</td> <td>Standard</td> <td>Occupied</td> </tr> </tbody> </table> </div> </div> </div> <!-- Bookings --> <div class="tab-pane fade" id="bookings" role="tabpanel"> <div class="card"> <div class="card-body"> <h2 class="card-title">Bookings</h2> <form id="booking-form"> <div class="mb-3"></pre>	


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Student's Daily Log Book

Day-41	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><label for="roomNumber" class="form-label">Room Number</label> <input type="text" class="form-control" id="roomNumber" required> </div> <div class="mb-3"> <label for="guestName" class="form-label">Guest Name</label> <input type="text" class="form-control" id="guestName" required> </div> <button type="submit" class="btn btn-primary">Add Booking</button> </form> <table class="table table-bordered mt-3"> <thead> <tr> <th>Room Number</th> <th>Guest Name</th> </tr> </thead> <tbody id="booking-list"> </tbody> </table> </div> </div> </div></pre>	
	
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Student's Daily Log Book

Day-42	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><!-- Guests --> <div class="tab-pane fade" id="guests" role="tabpanel"> <div class="card"> <div class="card-body"> <h2 class="card-title">Guest Records</h2> <table class="table table-bordered"> <thead> <tr> <th>Name</th> <th>Room Number</th> <th>Check-in Date</th> </tr> </thead> <tbody> <tr> <td>John Doe</td> <td>101</td> <td>2024-03-20</td> </tr> </tbody> </table> </div> </div> </div></pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-42	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></s cript> <script> document.getElementById("booking-form").addEventListener("submit", function(event) { event.preventDefault(); const roomNumber = document.getElementById("roomNumber").value; const guestName = document.getElementById("guestName").value; const tableBody = document.getElementById("booking-list"); const row = document.createElement("tr"); row.innerHTML = `<td>\${roomNumber}</td><td>\${guestName}</td>`; tableBody.appendChild(row); document.getElementById("booking-form").reset(); }); </script> </body> </html></pre>	
	
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Student's Daily Log Book

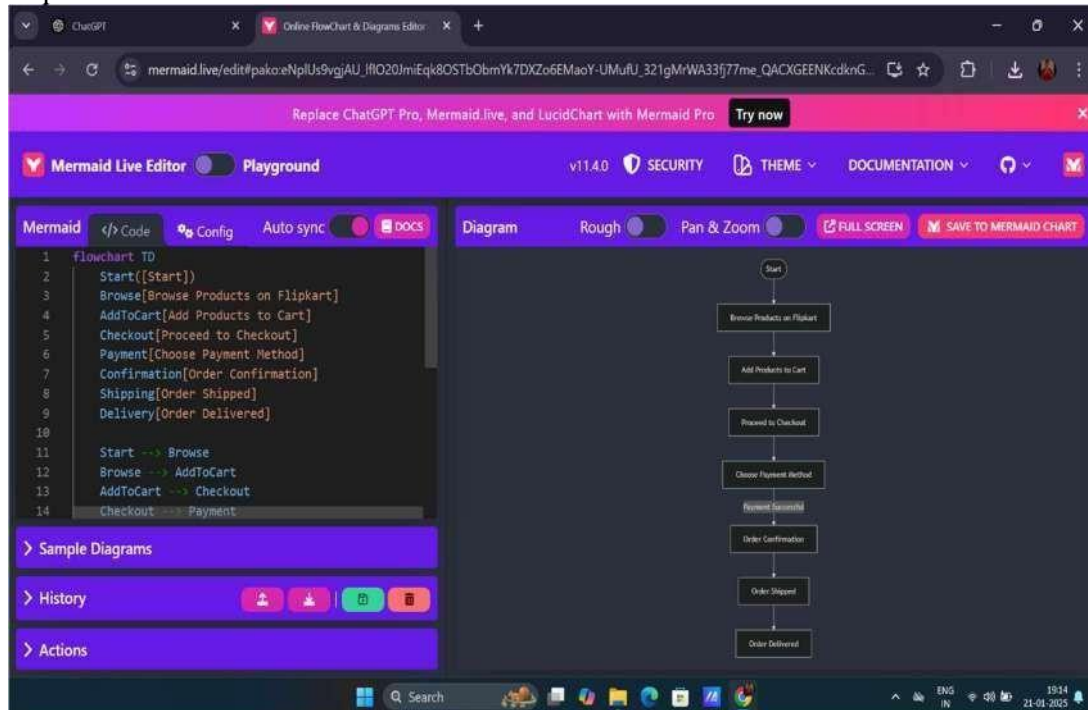
Day-43	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

- ✓ **Wireframes:-** visual representations of a web page or app interface, stripped down to its bare bones.
- ✓ **Explained how to use mermaid live editor tool .**

Example :-

- Flipkart frontend flowchart:-



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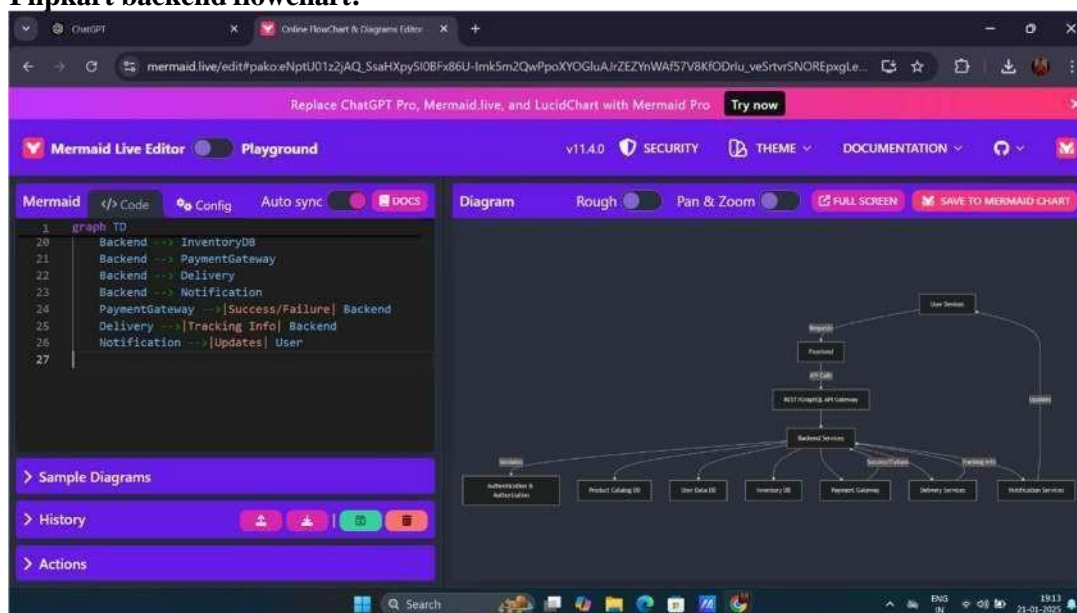
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Student's Daily Log Book

Day-43	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

- ✓ **Database:-** an organized collection of structured information, or data, typically stored electronically in a computer system.
- **Flipkart backend flowchart:-**



- ✓ **Explained about Figma tool.**
- **Figma:-**a cloud-based design tool that allows users to create, share, and test designs for websites, mobile apps, and other digital products.

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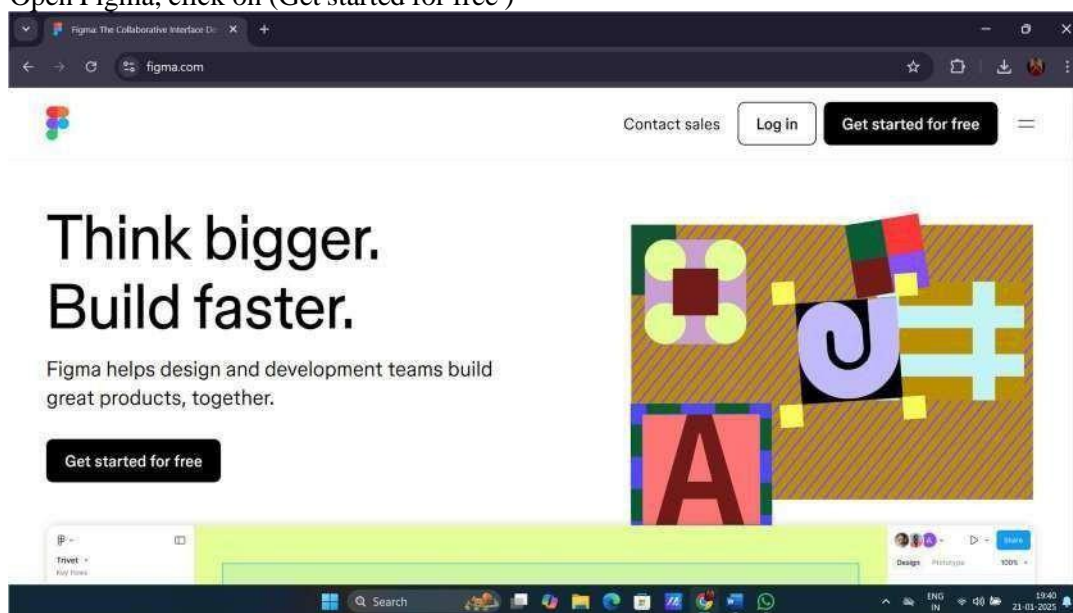
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Day-43	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

- **Steps:-**
- Open Figma, click on (Get started for free)



- Login with Email or continue with google
- Then you can see new interface of Figma

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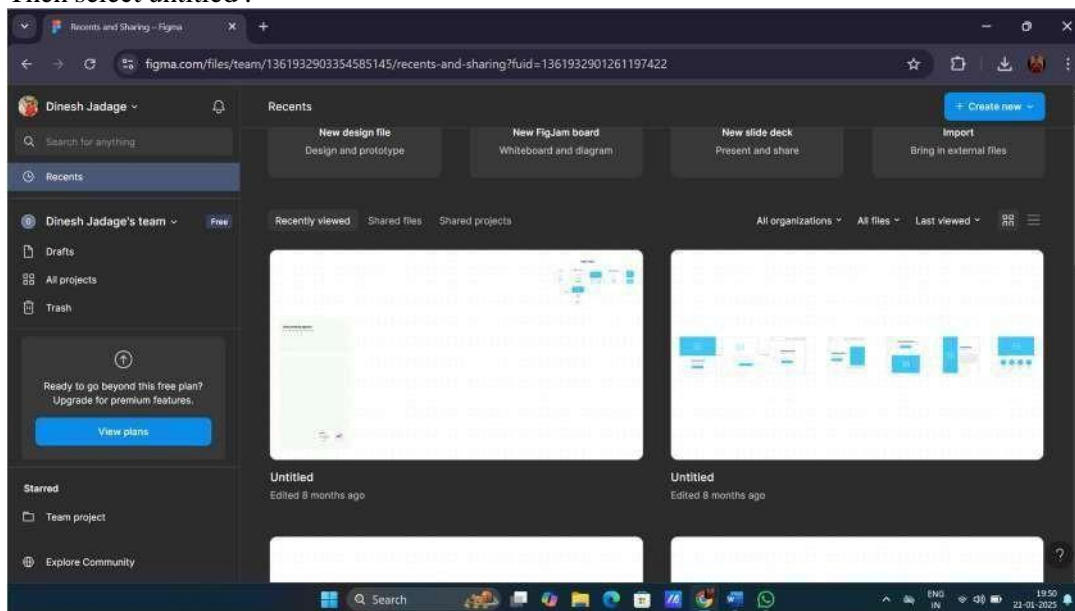
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Day-43	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

- Then select untitled .



- Start users to create, share, and test designs for Flipkart

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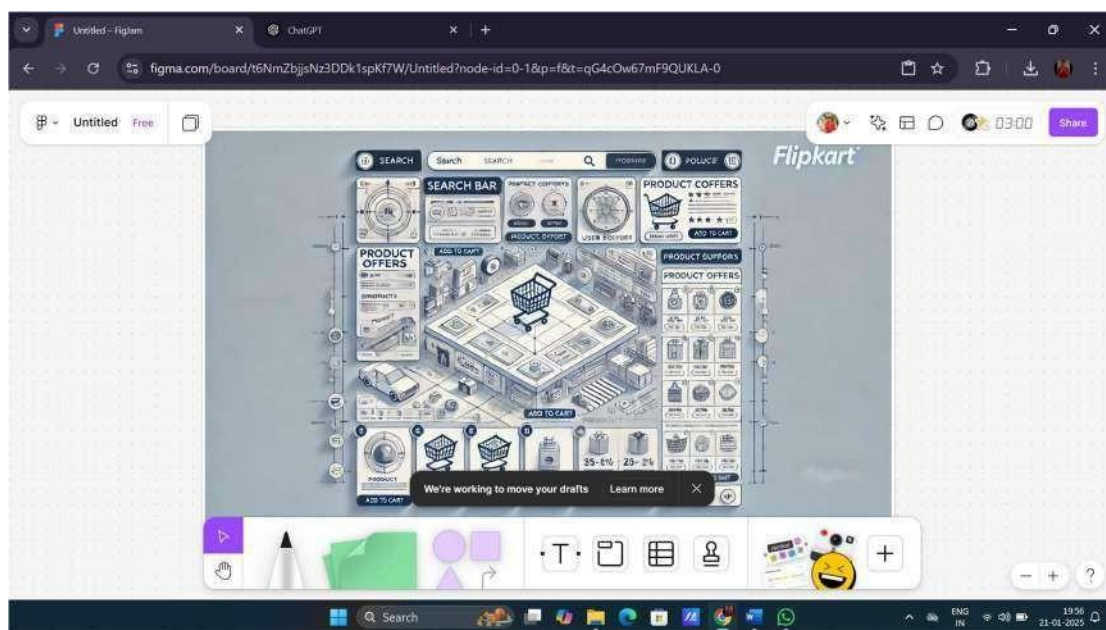
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Day-43	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)




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Student's Daily Log Book

Day-44	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Introduction to Java Java is a widely-used, high-level, object-oriented programming language that was first developed by Sun Microsystems (which was later acquired by Oracle Corporation) in 1995. It is designed to be platform-independent, allowing developers to write code that can run on any device that supports Java without modification. This concept is referred to as "Write Once, Run Anywhere" (WORA).</p> <p>✓ Explained about the Java Java is a programming language which we are using to write business logic.java is a object oriented programming language, java is a interpreted and compiled programming language. Programming language:- a medium used to communicate with your system. Compiled programming language:- compiled programming is a type of programming where we are writing the codes once and complier will read all the code at a single point of time. → Compiler is used to convert src to machine code. → Compiler will read all the codes at a time and convert it in to machine code at a same time. → Compiler will take less time when we are comparing with interpreter. Example:-c , c++ etc.</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-44	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Interpreted programming language:-this also a type programming where we are writing codes to convert it in to machine level code before execution.</p> <ul style="list-style-type: none">→ Interpreter will convert src file into machine code line by line.→ It will read a single line at a time.→ It will take more execution time when we are comparing with compiled programming language. <p>Example :- python</p> <p>✓ Explained about features of java</p> <ol style="list-style-type: none">1. java is simple programming language2. java is platform independent :- we can execute in all the os with no changes.3. java is containing oop :- class , encapsulation , polymorpysum , inheritance.4. Java is a robust programming language.5. Automatic garbage collector. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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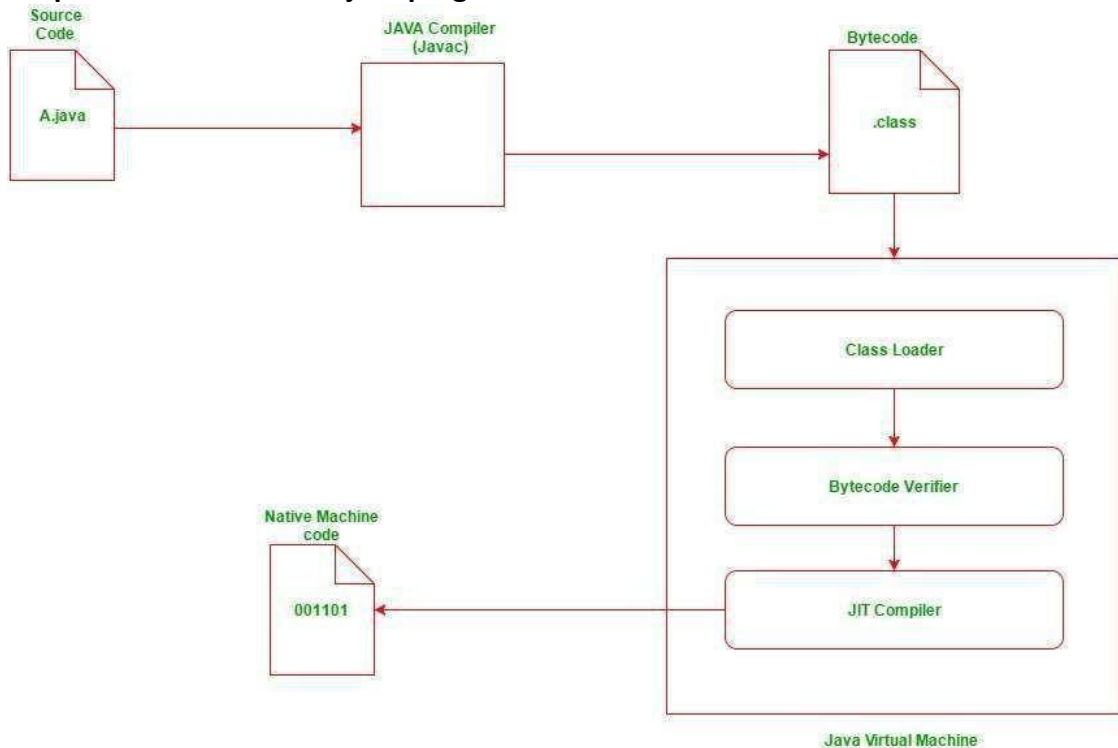
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Day-44	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

✓ **Explained about Flow of java program**




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Day-44	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Structure of java programming :<ul style="list-style-type: none">• Class:- In Java, everything is encapsulated within a class. A class is a blueprint for creating objects and defines the properties and behaviors that the objects created from the class can have.• Main method:- The main method is the entry point of any Java application. It is where the program starts executing.• Printing statement:- Java provides several ways to print output to the console. The most common method is using System.out.println().• User defined function:- In Java, you can define your own methods (functions) to perform specific tasks. These methods can be called from the main method or other methods.✓ DataType:- type of data that we are storing in the variable.✓ Primitive datatype:- In Java, primitive data types are the most basic data types that are built into the language. They are not objects and hold their values directly in memory.<ul style="list-style-type: none">• byte: 8bits• short: 2bytes -> 16bits• int : 4byte -> 32bits• Long: 8byte -> 64bits• float: 4byte -> 32bits• double: 8bytes -> 64bits• char: 1byte -> 16bits• boolean : 1 bit✓ Non Primitive -> In Java, non-primitive data types (also known as reference types) are more complex than primitive data types. They include classes, interfaces, arrays, and enums. Unlike primitive data types, which store their values directly in memory, non-primitive data types store references (or addresses) to the actual data. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-44	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">• class :- is a blueprint for creating objects. It defines a type by bundling data and methods that work on the data into one single unit.• interface:- is a reference type in Java, similar to a class, that can contain only constants, method signatures, default methods, static methods, and nested types. Interfaces cannot contain instance fields or constructors.• enum (short for "enumeration") :- is a special Java type used to define collections of constants.• An array:- is a container object that holds a fixed number of values of a single type. The length of an array is established when the array is created. <p>✓ Operators :-</p> <ul style="list-style-type: none">• Arithmetic Operators -> +, -, *, /, %• Logical Operators -> not, and, or• Assignment Operators -> =, +=, *=, /=, %=• Relational Operators -> >, <, >=, <=, ==, !=• Unary Operators -> ++, --, -• Ternary Operator -> ? :• Bitwise Operators -> bitwise and, bitwise or, ^ (Xor) <p>✓ Example:-</p> <pre>public class JavaOperators { public static void main(String[] args) { // Arithmetic Operators int a = 10, b = 5; System.out.println("Arithmetic Operators:"); } }</pre>	
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Student's Daily Log Book

Day-45	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>// Logical Operators boolean x = true, y = false; System.out.println("\nLogical Operators:"); System.out.println("x && y is " + (x && y)); // Logical AND // Assignment Operators int e = 10; System.out.println("\nAssignment Operators:"); System.out.println("e += 5 : " + (e += 5)); // Add AND // Relational Operators System.out.println("\nComparison Operators:"); System.out.println("a == b is " + (a == b)); // Equal to System.out.println("a != b is " + (a != b)); // Not equal to // Unary Plus Operator (+) int a = 10; int b = +a; System.out.println("Unary Plus:"); System.out.println("a = " + a); System.out.println("+a = " + b);</pre>	
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Student's Daily Log Book

Day-45	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>// Ternary Operator int f = 10, g = 20; String result = (f > g) ? "f is greater" : "g is greater"; System.out.println("\nTernary Operator:"); System.out.println(result); // Bitwise Operators int c = 5, d = 3; System.out.println("\nBitwise Operators:"); System.out.println("c & d = " + (c & d)); // Bitwise AND } }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-45	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Explained about Increment and decrement operator The increment (++) and decrement (--) operators are shorthand operators in programming, commonly used to increase or decrease the value of a variable by one.✓ Increment Operator (++) Usage: It increases the value of a variable by 1. Example: int a = 5;✓ Decrement Operator (--) Usage: It decreases the value of a variable by 1. Example: int a = 5; a--; // Now a becomes 4✓ Explained about Conditional Statement Conditional statements in programming allow the execution of specific blocks of code based on whether a condition (or set of conditions) evaluates to true or false. They are a fundamental concept for controlling the flow of a program. Types of Conditional Statements:<ol style="list-style-type: none">1. if Statement:-The if statement evaluates a condition and, if it's true, executes a block of code. Syntax:<pre>if (condition) { // code to be executed if condition is true }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-45	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>2 if-else Statement:-If the condition is true, the code inside the if block runs; otherwise, the code inside the else block runs.</p> <p>Syntax:</p> <pre>if (condition) { // code to be executed if condition is true } else { // code to be executed if condition is false }</pre> <p>3 else if Statement:-The else if statement allows you to check multiple conditions. If the first condition is false, it checks the next else if condition, and so on.</p> <p>Syntax:</p> <pre>if (condition1) { // code to be executed if condition1 is true } else if (condition2) { // code to be executed if condition2 is true } else { // code to be executed if none of the above conditions are true }</pre>	
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Student's Daily Log Book

Day-45	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>4 Nested if :-A nested if statement is when you place one if statement inside another if statement.</p> <p>Syntax:</p> <pre>if (condition1) { // code to be executed if condition1 is true if (condition2){ // code to be executed if condition1 and condition2 are both true } }</pre> <p>5 switch Statement:-The switch statement is an alternative to multiple if-else if statements. It allows you to test a variable or expression against a list of possible values (cases).</p> <p>Syntax:</p> <pre>switch (expression) { case value1: // code to be executed if expression equals value1 break; case value2: // code to be executed if expression equals value2 break; default: // code to be executed if expression doesn't match any case }</pre>	
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Student's Daily Log Book

Day-46	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Example:-import java.util.Scanner;</p> <pre>public class ConditionalStatements { public static void main(String[] args) { Scanner scanner = new Scanner(System.in); // 1. Check if a number is positive, negative, or zero System.out.print("Enter a number: "); int num = scanner.nextInt(); if (num > 0) { System.out.println(num + " is Positive"); } else if (num < 0) { System.out.println(num + " is Negative"); } else { System.out.println("The number is Zero"); } // 2. Check if a number is even or odd System.out.print("Enter a number to check Even/Odd: "); int evenOddNum = scanner.nextInt(); if (evenOddNum % 2 == 0)</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-46	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre> System.out.println(evenOddNum + " is Even"); } else { System.out.println(evenOddNum + " is Odd"); } // 3. Find the largest among three numbers System.out.print("Enter three numbers: "); int a = scanner.nextInt(); int b = scanner.nextInt(); int c = scanner.nextInt(); int largest; if (a > b && a > c) { largest = a; } else if (b > c) { largest = b; } else { largest = c; } System.out.println("Largest Number: " + largest);</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-46	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>// 4. Grade Calculation using switch-case System.out.print("Enter your marks (0-100): "); int marks = scanner.nextInt(); char grade switch (marks / 10) { case 10: case 9: grade = 'A'; break; case 8: grade = 'B'; break; case 7: grade = 'C'; break; case 6: grade = 'D'; break;</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-46	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>case 5: grade = 'E'; break; default: grade = 'F'; } System.out.println("Your Grade: " + grade); scanner.close(); }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-47	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explained about Looping Control Statement if we want to repeat some actions or tasks again and again then we will use looping concept</p> <p>✓ Explained about Types of Looping</p> <ol style="list-style-type: none">1. While loop2. for loop3. do-while loop4. Nested for loop <p>1. while : syntax: while(condition) { //statements }</p> <p>when to use ? -> when we don't know how many times the loop will repeat</p> <p>2. for loop : it is a type of looping here we know how many times the loop will repeat syntax: for(initialization ; condition ; increment/decrement) { //statements }</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-47	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>example : print number from 1 to 10</p> <pre>public class Main { public static void main(String[] args) { int a; for(a=1;a<=10;a++) { System.out.println("Number: "+a); } System.out.println("_____"); for(a=10;a>=1;a--) { System.out.println("Number: "+a); } } }</pre> <p>3.do while loop : when we want to display the content present in the loop at least once then we have to use do while</p> <p>Syntax:</p> <pre>do{ statement }while(condition);</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-47	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>example :</p> <pre>public class Main { public static void main(String[] args) { int a=20,i=1; do{ System.out.println(a); i++; }while(i<0); } }</pre>	
	
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Student's Daily Log Book

Day-48	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Function:- it is block of a code that we are using to do some specific task.</p> <p>✓ Types of function :-</p> <ul style="list-style-type: none">• Instance Methods: Require an object to be invoked.• Example:- <pre>public class Calculator { public int multiply(int a, int b) { return a * b; } } public class Main { public static void main(String[] args) { Calculator calc = new Calculator(); // Create an instance int product = calc.multiply(3, 4); System.out.println("Product: " + product); } }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-48	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">• Static Methods: Belong to the class and can be called without creating an object• Example:-<pre>public class Utility { public static int square(int number) { return number * number; } } public class Main { public static void main(String[] args) { int squared = Utility.square(6); // Direct call using class name System.out.println("Squared: " + squared); } }</pre>• Void Methods: Perform actions but do not return values.• Example:-<pre>public class Greeting { public void sayHello(String name) { System.out.println("Hello, " + name + "!"); } }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-49	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">• Program of arithmetic operations:- import java.util.Scanner; public class ArithmeticOperations { public static void main(String[] args) { Scanner scanner = new Scanner(System.in); // Input numbers System.out.print("Enter first number: "); double num1 = scanner.nextDouble(); System.out.print("Enter second number: "); double num2 = scanner.nextDouble(); // Perform arithmetic operations double sum = num1 + num2; double difference = num1 - num2; double product = num1 * num2; double quotient = (num2 != 0) ? num1 / num2 : Double.NaN; double modulus = (num2 != 0) ? num1 % num2 : Double.NaN; // Output results System.out.println("\nResults:"); System.out.println("Sum: " + sum); System.out.println("Difference: " + difference); System.out.println("Product: " + product); System.out.println("Quotient: " + quotient); System.out.println("Modulus: " + modulus); scanner.close(); } }	


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Day-50	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explained about Class and Object in java Class:- A class is a blueprint or template for creating objects. It defines the structure and behavior (fields and methods) that the objects created from it will have.</p> <p>Class members:</p> <ul style="list-style-type: none">➤ Data members:-data members are those variables which are declared within the body of class.➤ Function members:-function members are methods or function those are declared inside the class.➤ Static members:- A static method belongs to the class itself, not to instances of the class.➤ Non-Static members:- Non-static methods are associated with individual objects. These methods can access and modify both instance variables (non-static fields) and static fields. <p>Object:- An object is an instance of a class. It represents a specific entity with data and methods defined by the class.</p> <p>✓ Explained about States and Behavior's States:- The state of an object refers to the data or attributes that an object holds at any given time. It describes the current condition or characteristics of an object.</p> <p>Behavior's:- The behavior of an object refers to the actions or methods that the object can perform. It defines how an object can interact with other objects or modify its state.</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-50	Date:
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>→ How to access static members present in different class Syntax: classname.member_name;</p> <p>→ How to access static members present in same class Syntax: member_name;</p> <p>→ How to access non-static members present in different class -create an object of the class then access the member -To create a object we required new keyword Syntax: new class_name().member_name;</p> <p>→ How to access non-static members present in same class Syntax: this.model;</p> <p>✓ Explained about features of Static members</p> <ol style="list-style-type: none">1. Static members belong to the class, not individual objects.2. Static variables are allocated once, shared across all instances of the class.3. Static members can be accessed using the class name, without needing an object instance.4. Static methods cannot access instance variables or methods directly.5. Static blocks are used for one-time initialization when the class is loaded.6. Static members can be accessed in static methods like main().	
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained about features of Non-static members</p> <ol style="list-style-type: none">1. Non-static members are tied to specific objects of the class.2. Non-static members must be accessed through an object instance.3. Each object has its own copy of non-static variables, which can hold different values for each instance.4. Non-static methods can access both instance variables and static variables.5. Non-static methods can be overridden in subclasses.6. You cannot access non-static members from a static context (like the main() method) without creating an object.7. Non-static methods can directly access other non-static members (variables and methods) in the same class.	
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Day-51	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Example</p> <pre>// Define a class class Student { // Data members (fields) String name; int age; int rollNumber; // Constructor to initialize the object public Student(String name, int age, int rollNumber) { this.name = name; this.age = age; this.rollNumber = rollNumber; } // Method to display student details public void displayDetails() { System.out.println("Student Name: " + name); System.out.println("Age: " + age); System.out.println("Roll Number: " + rollNumber); } } public class ClassObjectExample { public static void main(String[] args) { // Creating objects of the Student class Student student1 = new Student("Alice", 20, 101); Student student2 = new Student("Bob", 22, 102);</pre>	


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Day-51	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>// Calling methods on objects System.out.println("Student 1 Details:"); student1.displayDetails(); System.out.println("\nStudent 2 Details:"); student2.displayDetails(); } }</pre>	
	
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Day-52	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained about Eclipse IDE</p> <p>Eclipse IDE (Integrated Development Environment) is a powerful and widely-used platform primarily for Java development, but it also supports other programming languages like C/C++, Python, PHP, and more.</p> <ul style="list-style-type: none">• Open-source and Free• Support for Multiple Programming Languages• Plugins and Extensions• Cross-platform <p>✓ Explained about How to create Project and Package in Eclipse</p> <p>Creating a New Project in Eclipse</p> <ol style="list-style-type: none">1. Inside Eclipse select the menu item.2. File > New > Project.....to open the New Project wizard3. Select Java Project4. then click Next5. Start new project <div style="text-align: right;"> Signature of Industry Supervisor</div>	

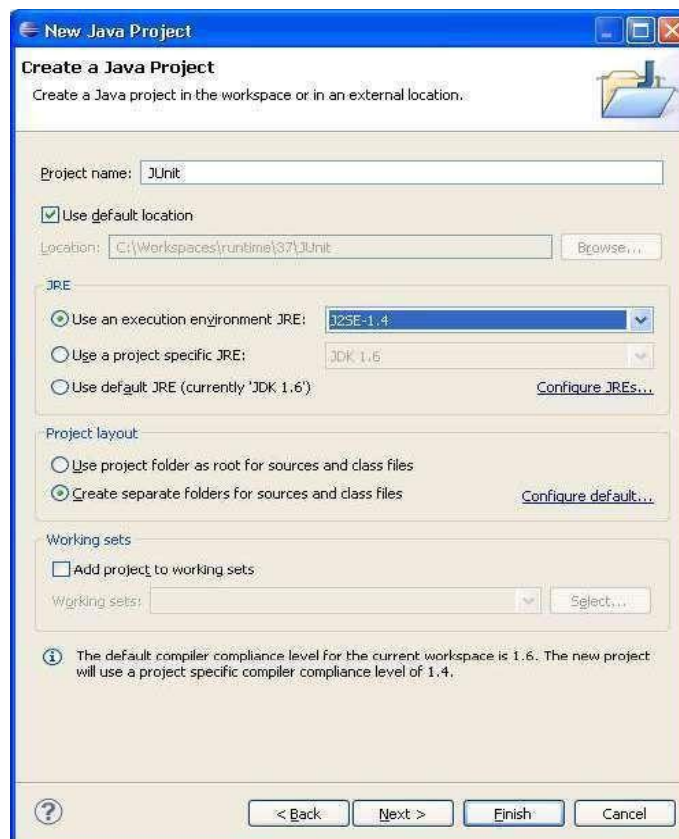
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Day-52	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)



On this page,

- type "JUnit" in the **Project name** field, and
- select "J2SE-1.4" in the **Use an execution environment JRE** field.


Then click **Finish**.

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Day-52	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Creating a New Package in Eclipse</p> <ol style="list-style-type: none">1. Right-click on src (which is the source folder inside your project in the Project Explorer).2. Select New > Package.3. In the New Package dialog box, give the package a name. By convention, package names are lowercase and follow a hierarchical structure, e.g., com.mycompany.myproject.4. Click Finish. <p>✓ Explained about Variable and Types of Variable</p> <p>A variable is a container that holds data that can be used and modified throughout a program. Each variable has a data type that determines the kind of data it can store (like numbers, text, or boolean values).</p> <p>✓ Types of Variable</p> <ol style="list-style-type: none">1. Member variable:- the term member variable refers to variables that are declared within a class but outside of any method, constructor, or block. Member variables are also called fields or attributes and are used to store data or state of an object. <p>It is also Classified into to two group:-</p> <ul style="list-style-type: none">• Static• Non-Static <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-52	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>2. Local variable:- A local variable is a variable that is declared inside a method, constructor, or block of code. It is only accessible within that method, constructor, or block.</p> <p>It is also Classified into to two group:-</p> <ul style="list-style-type: none">• Static• Non-Static	
	
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Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Frontend coding for ojt-2</p> <pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Hospital Management System</title> <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"> </head> <body> <div class="container mt-5"> <h1 class="text-center mb-4">Hospital Management System</h1> <ul class="nav nav-tabs" id="hospitalTabs" role="tablist"> <li class="nav-item" role="presentation"> <button class="nav-link active" id="dashboard-tab" data-bs-toggle="tab" data- bs-target="#dashboard" type="button" role="tab">Dashboard</button> <li class="nav-item" role="presentation"> <button class="nav-link" id="doctors-tab" data-bs-toggle="tab" data-bs- target="#doctors" type="button" role="tab">Doctors</button> <li class="nav-item" role="presentation"> <button class="nav-link" id="patients-tab" data-bs-toggle="tab" data-bs- target="#patients" type="button" role="tab">Patients</button> </pre> <p style="text-align: right;"> Signature of Industry Supervisor</p>	

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Day-53	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><div class="tab-content mt-3"> <!-- Dashboard --> <div class="tab-pane fade show active" id="dashboard" role="tabpanel"> <div class="card"> <div class="card-body"> <h2 class="card-title">Hospital Overview</h2> <p>Welcome to the hospital management system. Use the tabs to navigate through different sections.</p> </div> </div> </div> <!-- Doctors --> <div class="tab-pane fade" id="doctors" role="tabpanel"></pre>	
	
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Day-54	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><div class="card"> <div class="card-body"> <h2 class="card-title">Doctors List</h2> <table class="table table-bordered"> <thead> <tr> <th>Name</th> <th>Specialization</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Dr. Smith</td> <td>Cardiologist</td> <td>123-456-7890</td> </tr> </tbody> </table> </div> </div> <!-- Patients --> <div class="tab-pane fade" id="patients" role="tabpanel"> <div class="card"></pre> <p style="text-align: right;"> Signature of Industry Supervisor</p>	

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Day-54	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><div class="card-body"> <h2 class="card-title">Patients Records</h2> <table class="table table-bordered"> <thead> <tr> <th>Name</th> <th>Age</th> <th>Diagnosis</th> <th>Doctor</th> </tr> </thead> <tbody> <tr> <td>John Doe</td> <td>45</td> <td>Hypertension</td> <td>Dr. Smith</td> </tr> </tbody> </table> </div> </div> </div> </div> </div> </div> <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script> > </body> </html></pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-55	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><style> body { background-color: #f8f9fa; } .container { background: white; padding: 20px; border-radius: 10px; box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1); } .nav-tabs .nav-link { color: #007bff; } .nav-tabs .nav-link.active { background-color: #007bff; color: white; } .card { border-radius: 10px; box-shadow: 0px 0px 5px rgba(0, 0, 0, 0.1); } table { background: white; } th { background: #007bff; color: white; } </style></pre>	
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Day-55	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre><script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></s cript> <script> document.addEventListener("DOMContentLoaded", function() { console.log("Hospital Management System Loaded"); }); function validateForm() { let name = document.getElementById("name").value; let age = document.getElementById("age").value; let contact = document.getElementById("contact").value; if (name.trim() === "") { alert("Name cannot be empty"); return false; } if (age.trim() === "" isNaN(age) age < 0) { alert("Please enter a valid age"); return false; } let phonePattern = /^[0-9]{10}\$/; if (!phonePattern.test(contact)) { alert("Please enter a valid 10-digit phone number"); return false; } return true; } </script></pre>	
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Day-56	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained about Constructor a constructor is a special type of method that is called when an object of a class is created. Its main purpose is to initialize the newly created object. Constructors have a few key characteristics:</p> <ol style="list-style-type: none">1. Same name as the class: The constructor must have the same name as the class.2. No return type: Constructors don't have a return type, not even void.3. Automatically called: When you create an object using the new keyword, the constructor is automatically invoked to initialize the object. <p>✓ Explained about Types of Constructors</p> <ol style="list-style-type: none">1. Default Constructor:<ul style="list-style-type: none">o This constructor is provided by Java if no constructor is explicitly defined in the class. It doesn't take any parameters and initializes the object with default values (e.g., null, 0, etc.).2. Parameterized Constructor:<ul style="list-style-type: none">o A constructor that takes arguments to initialize an object with specific values at the time of creation. <p>✓ Explained about Access Specifier Access specifiers (also called access modifiers) determine the visibility or accessibility of classes, methods, variables, and constructors. They control how other classes can interact with these components. There are four main types of access specifiers in Java:</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-56	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>1. public:</p> <ul style="list-style-type: none">The public specifier allows the class, method, or variable to be accessible from anywhere, both inside and outside the package. <p>EX:-</p> <pre>public class MyClass { public int number; public void display() { System.out.println("Hello, World!"); } }</pre> <p>2. private:</p> <ul style="list-style-type: none">The private specifier restricts the access to the current class only. No other class (even if it's in the same package) can access private members.Typically used to encapsulate variables and methods, ensuring they are only modified or accessed within the class itself. <p>EX:-</p> <pre>public class MyClass { private int number; private void display() { System.out.println("Private method!"); } }</pre>	
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Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>3.protected:</p> <ul style="list-style-type: none">• The protected specifier allows access within the same package, as well as by subclasses (even if the subclass is in a different package).• It's a more permissive option than private but more restrictive than public. <p>EX:-</p> <pre>public class MyClass { protected int number; protected void display() { System.out.println("Protected method!"); } }</pre> <p>✓ Explained about Package</p> <p>A package is a namespace that organizes classes and interfaces. It is used to group related classes and interfaces together, making the code more manageable and easier to maintain. Packages also help avoid class name conflicts by distinguishing classes with the same name but in different packages.</p> <ul style="list-style-type: none">• Namespace Management• Code Organization• Access Control• Reusability <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-56	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explain about Types of Packages:</p> <p>1. Built-in Packages (Standard Library):</p> <ul style="list-style-type: none">o These packages are predefined in Java and provide functionality such as collections, file I/O, networking, etc.o Examples: java.util, java.io, java.lang (this package is automatically imported in every Java program). <p>2. User-defined Packages:</p> <ul style="list-style-type: none">o You can create your own packages to organize your classes and interfaces according to your project's requirements.	
	
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Day-57	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>Example</p> <pre>// Define a class class Person { String name; int age; // Default Constructor (No parameters) public Person() { name = "Unknown"; age = 0; } // Parameterized Constructor public Person(String name, int age) { this.name = name; this.age = age; } // Copy Constructor public Person(Person p) { this.name = p.name; this.age = p.age; } // Method to display details public void display() { System.out.println("Name: " + name); } }</pre>	
	
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Day-57	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre> System.out.println("Age: " + age); } } public class ConstructorExample { public static void main(String[] args) { // Using Default Constructor Person person1 = new Person(); System.out.println("Person 1 Details:"); person1.display(); // Using Parameterized Constructor Person person2 = new Person("Alice", 25); System.out.println("\nPerson 2 Details:"); person2.display(); // Using Copy Constructor Person person3 = new Person(person2); System.out.println("\nPerson 3 (Copy of Person 2) Details:"); person3.display(); } }</pre>	
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Day-57	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>// Parent class with different access specifiers class Example { public String publicVar = "I am Public"; protected String protectedVar = "I am Protected"; String defaultVar = "I am Default"; private String privateVar = "I am Private"; // Public method public void showPublic() { System.out.println(publicVar); } // Protected method protected void showProtected() { System.out.println(protectedVar); } // Default method void showDefault() { System.out.println(defaultVar); } // Private method private void showPrivate() { System.out.println(privateVar); } }</pre>	
	
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Day-57	Date:
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>// Method to demonstrate access inside the same class public void accessAll() { System.out.println("Inside Example class:"); showPublic(); showProtected(); showDefault(); showPrivate(); // Accessible inside the same class } }</pre> <p>// Subclass (inherits from Example)</p> <pre>class SubClass extends Example { public void accessParent() { System.out.println("\nInside SubClass:"); showPublic(); // Accessible showProtected(); // Accessible (in subclass) showDefault(); // Accessible (same package) // showPrivate(); // + Not accessible } }</pre> <pre>public class AccessSpecifierExample { public static void main(String[] args) { Example obj = new Example(); obj.accessAll(); // Accessing all inside the same class // Accessing from another class System.out.println("\nInside Main Method:");</pre>	




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Day-57	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>obj.showPublic(); // Accessible // obj.showProtected(); // + Not accessible (unless in subclass) // obj.showDefault(); // + Not accessible outside package // obj.showPrivate(); // + Not accessible // Access from subclass SubClass subObj = new SubClass(); subObj.accessParent(); } }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-58	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>// Define the package package mypackage; // Public class in the package public class MyClass { public void showMessage() { System.out.println("Hello from MyClass inside mypackage!"); } } // Define another class inside the same package package mypackage; public class MathOperations { // Method to add two numbers public int add(int a, int b) { return a + b; } // Method to multiply two numbers public int multiply(int a, int b) { return a * b; } }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-58	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>// Import classes from mypackage import mypackage.MyClass; import mypackage.MathOperations; public class Main { public static void main(String[] args) { // Using MyClass MyClass obj = new MyClass(); obj.showMessage(); // Using MathOperations MathOperations math = new MathOperations(); int sum = math.add(10, 20); int product = math.multiply(5, 4); System.out.println("Sum: " + sum); System.out.println("Product: " + product); } }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-59	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ ConstructorOverLoading developing multiple constructor within the same class with same name which<ul style="list-style-type: none">• number of arguments• data type of the argument• order of argument✓ Requirement:<ul style="list-style-type: none">• need to create an object if end user providing• username, phone• username, phoneNumber, email✓ program:- package com.oops.constructor; <pre>public class ConstructorOverLoading { String name; String email; long phone;</pre>	
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Day-59	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>// Constructor with two parameters public ConstructorOverLoading(String name, long phone) { this.name = name; this.phone = phone; } // Constructor with three parameters public ConstructorOverLoading(String name, String email, long phone) { this.name = name; this.email = email; this.phone = phone; } // Method to display details public void showDetails() { System.out.println("Name: " + name); System.out.println("Phone: " + phone); System.out.println("Email: " + (email != null ? email : "N/A")); } public static void main(String[] args) { ConstructorOverLoading s1 = new ConstructorOverLoading("Arun", 2345678); s1.showDetails(); ConstructorOverLoading s2 = new ConstructorOverLoading("Kiran", "kiran@example.com", 9876543); s2.showDetails(); } }</pre>	
	
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Day-60	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ functional overloading :-developing multiple methods within the same class with the same name which</p> <ul style="list-style-type: none">• number of arguments• 4 Data types of the arguments• order of the arguments <p>this is called as method over loading</p> <p>✓ when to use: for the same functionality when we want to provide multiple inputs then we will use multiple overloading .</p> <p>program:-</p> <pre>package com.oops.constructor; public class FunctionOverloading { public void drawpoints(int x, int y) { System.out.println("values of x :"+x+" and y:"+y); } public void drawpoints(int x, double y) { System.out.println("values of x :"+x+" and y:"+y); } public void drawpoints(double x , double y) { System.out.println("values of x :"+x+" and y:"+y); } }</pre> 	
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Student's Daily Log Book

Day-60	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>public static void main(String[] args) { FunctionOverloading s=new FunctionOverloading(); s.drawpoints(9,7); s.drawpoints(9.6,7.9); s.drawpoints(9,7.4); }</pre> <p>✓ inheritance :-one class acquiring properties of another class is called as inheritance</p> <ul style="list-style-type: none">• the class from where we are inherited is called as super class , parent class , base class• the class which is inheriting properties is called as sub class , child class , derived class• extends-> in order to extract the properties from one class to another we have to use extends keyword.• when we are creating object of child class we can access all the properties from parent class• but• i cant access all the properties of subclass with the help of super class object <p>✓ types</p> <ul style="list-style-type: none">• Single inheritance• multiple inheritance• multi-level inheritance• Hierarchical inheritance• hybrid inheritance <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-61	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Program:-</p> <pre>package com.oops.constructor; class Sample{ public void count() { for(int i=0;i<5;i++) { System.out.println(i); } } } public class Inheritance extends Sample { public void printing() { System.out.println("hello"); } public static void main(String[] args) { Sample s1=new Sample(); s1.count(); System.out.println("_____"); Inheritance i1=new Inheritance(); i1.count(); i1.printing(); } }</pre>	
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Student's Daily Log Book

Day-61	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Single Inheritance:- A class inherits from a single superclass.</p> <p>✓ Example:-</p> <pre>// Parent class class Animal { void sound() { System.out.println("Animals make sounds"); } } // Child class class Dog extends Animal { void bark() { System.out.println("Dog barks"); } public static void main(String[] args) { Dog myDog = new Dog(); myDog.sound(); // Calling inherited method myDog.bark(); // Calling child class method } }</pre>	
	
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Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Multilevel Inheritance:- A class inherits from another class, which itself is a subclass of another class.</p> <p>✓ Example:-</p> <pre>// Grandparent class class Animal { void eat() { System.out.println("Animals eat food"); } } // Parent class class Mammal extends Animal { void walk() { System.out.println("Mammals walk"); } } // Child class class Human extends Mammal { void speak() { System.out.println("Humans can speak"); } } public static void main(String[] args) { Human person = new Human(); person.eat(); // Inherited from Animal person.walk(); // Inherited from Mammal person.speak(); // Defined in Human }</pre>	
	
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Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Hierarchical Inheritance:- Multiple child classes inherit from a single parent class.</p> <p>✓ Example:-</p> <pre>// Parent class class Animal { void sleep() { System.out.println("Animals sleep"); } } // Child class 1 class Dog extends Animal { void bark() { System.out.println("Dog barks"); } } // Child class 2 class Cat extends Animal { void meow() { System.out.println("Cat meows"); } } public class Main { public static void main(String[] args) { Dog myDog = new Dog(); myDog.sleep(); // Inherited from Animal myDog.bark(); // Dog's own method Cat myCat = new Cat(); myCat.sleep(); // Inherited from Animal myCat.meow(); // Cat's own method } }</pre>	




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Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Multiple Inheritance (Using Interfaces):- Java does not support multiple inheritance with classes but allows it using interfaces.</p> <p>✓ Example:-</p> <pre>// First interface interface Animal { void eat(); } // Second interface interface Bird { void fly(); } // Class implementing multiple interfaces class Sparrow implements Animal, Bird { public void eat() { System.out.println("Sparrow eats grains"); } public void fly() { System.out.println("Sparrow can fly"); } public static void main(String[] args) { Sparrow sp = new Sparrow(); sp.eat(); sp.fly(); } }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Hybrid Inheritance (Combination using Interfaces):- Since multiple inheritance is not allowed in Java using classes, hybrid inheritance is achieved using interfaces.</p> <p>✓ Example:-</p> <pre>// Interface 1 interface Vehicle { void drive(); } // Interface 2 interface Electric { void charge(); } // Class implementing both interfaces class Tesla implements Vehicle, Electric { public void drive() { System.out.println("Tesla is driving"); } public void charge() { System.out.println("Tesla is charging"); } public static void main(String[] args) { Tesla myCar = new Tesla(); myCar.drive(); myCar.charge(); } }</pre>	
	
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Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Method Overriding:- happens when a child class provides a new version of a method that is already defined in its parent class.</p> <p>✓ Program:-</p> <pre>class Parent { void show() { System.out.println("Parent class method"); } } class Child extends Parent { @Override void show() { System.out.println("Child class method"); } } public class Main { public static void main(String[] args) { Parent obj = new Child(); // Parent reference, Child object obj.show(); // Calls Child class method (Overridden method) } }</pre>	
	
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Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Abstract class:- is a class that cannot be instantiated and is meant to be extended by other classes</p> <p>✓ Program :-</p> <pre>// Abstract class abstract class Animal { // Abstract method (no body) abstract void makeSound(); // Concrete method (has implementation) void sleep() { System.out.println("Sleeping..."); } } // Subclass (inherits from Animal) class Dog extends Animal { // Implementing the abstract method @Override void makeSound() { System.out.println("Woof! Woof!"); } } // Main class public class Main { public static void main(String[] args) { Dog myDog = new Dog(); myDog.makeSound(); // Output: Woof! Woof! myDog.sleep(); // Output: Sleeping... } }</pre>	


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Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">✓ Interface:-is a blueprint for a class that defines a set of abstract methods that a class must implement.✓ Key Characteristics of Interfaces in Java:<ul style="list-style-type: none">• Abstract Methods: Interfaces contain only method signatures (abstract methods) without implementations (until Java 8).• Multiple Inheritance: A class can implement multiple interfaces, overcoming the limitation of single inheritance in Java.• Static and Default Methods (Java 8): Interfaces can include default and static methods with implementations.• Constant Variables: All variables declared in an interface are implicitly public, static, and final.• No Constructors: Interfaces cannot have constructors because they cannot be instantiated.✓ Features of an Interface<ul style="list-style-type: none">• Only abstract methods (before Java 8).• Static and final variables only (constants).• No constructors (cannot instantiate an interface).• Multiple inheritance support (a class can implement multiple interfaces).• All methods are implicitly public abstract.	
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Time of Arrival	Time of Departure												
Dept/Division:- Software Development	Nature of work:-Full Stack Development												
Name of the Supervisor With designation and email ID													
Remarks of the Training supervisor:													
Record Main actives of the day (including observation, sketches, discussions, etc)													
<table border="1"><thead><tr><th>Feature</th><th>Interface</th></tr></thead><tbody><tr><td>Methods</td><td>Only abstract (before Java 8); from Java 8 onwards, default and static methods allowed</td></tr><tr><td>Variables</td><td>Only <code>public static final</code> (constants)</td></tr><tr><td>Inheritance</td><td>Supports multiple inheritance</td></tr><tr><td>Constructor</td><td>No constructor</td></tr><tr><td>Access Modifiers</td><td>Methods are always <code>public</code></td></tr></tbody></table>		Feature	Interface	Methods	Only abstract (before Java 8); from Java 8 onwards, default and static methods allowed	Variables	Only <code>public static final</code> (constants)	Inheritance	Supports multiple inheritance	Constructor	No constructor	Access Modifiers	Methods are always <code>public</code>
Feature	Interface												
Methods	Only abstract (before Java 8); from Java 8 onwards, default and static methods allowed												
Variables	Only <code>public static final</code> (constants)												
Inheritance	Supports multiple inheritance												
Constructor	No constructor												
Access Modifiers	Methods are always <code>public</code>												
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Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc</p> <p>✓ Program:-</p> <pre>// First interface interface Animal { void eat(); } // Second interface interface Mammal { void walk(); } // Implementing multiple interfaces class Dog implements Animal, Mammal { public void eat() { System.out.println("Dog is eating."); } public void walk() { System.out.println("Dog is walking."); } } // Main class public class MultipleInterfaces { public static void main(String[] args) { Dog dog = new Dog(); dog.eat(); // Output: Dog is eating. dog.walk(); // Output: Dog is walking. } }</pre>	
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Day-64	Date:
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained about interface JDK8</p> <ul style="list-style-type: none">➤ JDK8 and greater version support for concrete methods➤ Concrete methods of interface should be declared only by using keywords<ul style="list-style-type: none">○ Static : Static methods○ Default :non static methods <p>✓ Why we need static concrete method</p> <p>This is based on the client requirement that we are mentioning it as static and if you want to access the method by interfacename.method name</p> <p>EX:-</p> <pre>interface MyInterface { static void staticMethod() { System.out.println("This is a static method in the interface."); } default void defaultMethod() { System.out.println("This is a default method in the interface."); } }</pre> <pre>class MyClass implements MyInterface { @Override public void defaultMethod() { System.out.println("Overridden default method."); } }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre> } } public class Main { public static void main(String[] args) { MyInterface.staticMethod(); MyClass myClass = new MyClass(); myClass.defaultMethod(); } }</pre>	
<p>✓ Why we need non-static method</p> <p>Non-static methods are important for a number of reasons, primarily because they provide flexibility in object-oriented programming (OOP) and allow each object to have its own distinct behavior and state.</p> <p>Ex:-</p> <pre>interface MyInterface { default void concreteMethod() { System.out.println("This is a concrete method in the interface."); } void abstractMethod(); }</pre>	
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>class MyClass implements MyInterface { @Override public void abstractMethod() { System.out.println("This is the implementation of the abstract method."); } } public class Main { public static void main(String[] args) { MyClass myClass = new MyClass(); myClass.concreteMethod(); myClass.abstractMethod(); } }</pre>	
<p>✓ Explained about the Casting</p> <p>Casting in Java is the process of converting a variable from one type to another. It can be done with both primitive data types and reference types (objects). Let's go over primitive casting first, followed by casting between reference types.</p> <p>Types of Casting:-</p> <ol style="list-style-type: none">1. Primitive Casting:- Primitive casting in Java refers to converting one primitive data type to another.<ul style="list-style-type: none">➤ Widening:- This type of casting is automatically done by Java when converting a smaller type to a larger type. The smaller type's value fits perfectly into the larger type without any data loss. <p>EX:-</p> <pre>public class ImplicitCasting { public static void main(String[] args) {</pre>	
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>byte b = 10; int i = b; // Implicit casting from byte to int long l = i; // Implicit casting from int to long double d = l; // Implicit casting from long to double System.out.println("byte to int: " + i); System.out.println("int to long: " + l); System.out.println("long to double: " + d); } }</pre> <p>➤ Narrowing:-This type of casting happens when a larger data type is assigned to a smaller data type. In this case, Java requires you to explicitly cast the value because it might lose data.</p> <p>Ex:-</p> <pre>public class ExplicitCasting { public static void main(String[] args) { double d = 9.78; int i = (int) d; // Explicit casting from double to int (fraction lost) byte b = (byte) i; // Explicit casting from int to byte (data loss possible) System.out.println("double to int: " + i); // 9 System.out.println("int to byte: " + b); // 9 } }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Explained about the Derived Casting When working with objects, casting refers to converting an object of one class type to another. This involves the relationship between classes, such as inheritance or interfaces.</p> <p>➤ Upcasting:-Upcasting is when you convert a subclass type to a superclass type. This is safe and does not require explicit casting because a subclass object is a type of its superclass.</p> <p>Ex:-</p> <pre>class Animal { void sound() { System.out.println("Some sound"); } } class Dog extends Animal { void sound() { System.out.println("Bark"); } } public class UpcastingExample { public static void main(String[] args) { Dog dog = new Dog(); Animal animal = dog; // Upcasting (Implicit) animal.sound(); // Output: Bark } }</pre>	
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>➤ Downcasting:-Downcasting is when you convert a superclass type to a subclass type. This is risky and must be done explicitly. If the object is not of the type you're casting it to, it will result in a ClassCastException.</p> <p>Ex:-</p> <pre>class Animal { void sound() { System.out.println("Some sound"); } } class Dog extends Animal { void sound() { System.out.println("Bark"); } } public class DowncastingExample { public static void main(String[] args) { Animal animal = new Dog(); // Upcasting Dog dog = (Dog) animal; // Downcasting (Explicit) dog.sound(); // Output: Bark } }</pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-70	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ Poly- different✓ morphism - forms✓ Polymorphism: one entity showing behavior at different places is called polymorphism✓ types of Polymorphism<ul style="list-style-type: none">• compile time binding the method declaration and definition during compile time• run time binding the method declaration and definition during run time✓ Program<pre>// Parent class class Animal { void makeSound() { System.out.println("Animal makes a sound"); } } // Child class class Dog extends Animal { @Override void makeSound() { System.out.println("Dog barks"); } } // Another child class class Cat extends Animal { @Override void makeSound() { System.out.println("Cat meows"); } }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-70	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>public class PolymorphismExample { public static void main(String[] args) { Animal myAnimal; // Reference of parent class myAnimal = new Dog(); // Dog object myAnimal.makeSound(); // Calls Dog's version of makeSound() myAnimal = new Cat(); // Cat object myAnimal.makeSound(); // Calls Cat's version of makeSound() } }</pre> <p>✓ Abstraction: - hiding implementation details and showing only the essential features of an object.</p> <p>✓ Program:-</p> <pre>// Interface interface Animal { void makeSound(); // Abstract method (no body) } // Class implementing the interface class Dog implements Animal { @Override public void makeSound() { System.out.println("Dog barks"); } }</pre>	
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Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre>public class AbstractionExample { public static void main(String[] args) { Animal myDog = new Dog(); // Upcasting myDog.makeSound(); // Calls overridden method } }</pre> <p>✓ Encapsulation:- this is wrapping up of data members and function members of the class is know as encapsulation</p> <p>✓ Program:-</p> <pre>class Person { private String name; // Private variable (data hiding) private int age; // Constructor public Person(String name, int age) { this.name = name; this.age = age; } // Getter method for name public String getName() { return name; } // Setter method for name public void setName(String name) { this.name = name; } }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-71	Date:
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Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>// Getter method for age public int getAge() { return age; } // Setter method for age public void setAge(int age) { if (age > 0) { // Validation before setting value this.age = age; } } public class Main { public static void main(String[] args) { Person p = new Person("Alice", 25); // Accessing private variables using getters System.out.println("Name: " + p.getName()); System.out.println("Age: " + p.getAge()); // Modifying private variables using setters p.setAge(30); System.out.println("Updated Age: " + p.getAge()); } }</pre>	
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Day-72	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained about Database</p> <p>A database is a structured collection of data that is stored and managed in a way that allows easy access, retrieval, and manipulation. It organizes data in tables, rows, and columns, typically using software called a Database Management System (DBMS). Databases can store various types of information, such as text, numbers, and dates, and can be used for everything from managing small datasets to large-scale data for organizations.</p> <p>There are different types of databases, such as:</p> <ul style="list-style-type: none">o Relational databases (e.g., MySQL, PostgreSQL) store data in tables with predefined relationships between them.o NoSQL databases (e.g., MongoDB, Cassandra) handle unstructured data, often used for big data or real-time applications.o In-memory databases (e.g., Redis) keep data in the system's memory for faster processing. <p>✓ Explained about SQL</p> <p>SQL (Structured Query Language) is a standard programming language used for managing and manipulating relational databases. It allows users to interact with databases by performing tasks such as querying, updating, inserting, and deleting data. SQL is used to communicate with a Database Management System (DBMS) to handle data stored in tables.</p> <p>Some of the main functions of SQL include:</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Day-72	Date:
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">○ Querying data: Retrieve data from one or more tables using SELECT.○ Inserting data: Add new records to a table using INSERT.○ Updating data: Modify existing data in a table using UPDATE.○ Deleting data: Remove records from a table using DELETE.○ Creating and modifying structures: Define and change the structure of database tables and objects using CREATE, ALTER, and DROP.	
<p>✓ Explained about Constraints</p> <p>constraints are rules or limitations applied to the data in a table to ensure the integrity, accuracy, and consistency of the data. Constraints are used to enforce certain conditions on the data, such as ensuring no duplicates, enforcing relationships, or preventing invalid entries.</p> <p>1.Primary Key Constraint:</p> <ul style="list-style-type: none">• Ensures that each row in a table has a unique identifier (primary key).• No two rows can have the same primary key value, and it cannot be NULL.• Example: PRIMARY KEY (id) <p>2.Foreign Key Constraint:</p> <ul style="list-style-type: none">• Ensures referential integrity between two tables. It links a column (or a set of columns) in one table to the primary key in another table.• This enforces the relationship between tables, ensuring that values in the foreign key column exist in the referenced primary key column.• Example: FOREIGN KEY (user_id) REFERENCES users(id)	
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Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>3. Unique Constraint:</p> <ul style="list-style-type: none">• Ensures that all values in a column (or a set of columns) are unique.• Unlike the primary key, a table can have multiple unique constraints.• Example: UNIQUE (email) <p>4. Check Constraint:</p> <ul style="list-style-type: none">• Ensures that values in a column satisfy a specific condition or rule.• For example, it can ensure that an age column only contains values greater than or equal to 18.• Example: CHECK (age >= 18) <p>5. Not Null Constraint:</p> <ul style="list-style-type: none">• Ensures that a column cannot have a NULL value. Every row must have a value for this column.• Example: NOT NULL <p>6. Default Constraint:</p> <ul style="list-style-type: none">• Provides a default value for a column if no value is specified when inserting a new record.• Example: DEFAULT 'pending' (for a status column). <p>✓ Explained about installation of MYSQL</p> <p>Installing MySQL on Windows</p> <p>1.Download MySQL Installer:</p> <ul style="list-style-type: none">○ Go to the official MySQL website: MySQL Downloads○ Choose the Windows version and download the MySQL Installer. <p style="text-align: right;"> Signature of Industry Supervisor</p>	

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Student's Daily Log Book

Day-73	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>2. Run the Installer:</p> <ul style="list-style-type: none">o After downloading, run the installer and select the version you want to install.o The installer offers two options:<ul style="list-style-type: none">▪ Developer Default: Includes all tools and servers.▪ Server Only: Installs only MySQL server.o Choose the version that suits your needs. <p>3. Configuration:</p> <ul style="list-style-type: none">o During installation, configure MySQL server settings such as:<ul style="list-style-type: none">▪ Set the root password.▪ Choose whether to run MySQL as a Windows service (recommended). <p>4. Finish Installation:</p> <ul style="list-style-type: none">o After installation completes, you can start the MySQL server and use MySQL Workbench for managing your databases.	
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Student's Daily Log Book

Day-74	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Create CREATE TABLE EMPLOYEE (empId INTEGER PRIMARY KEY, name TEXT NOT NULL, dept TEXT NOT NULL);</p> <p>✓ Insert • INSERT INTO EMPLOYEE VALUES (0001, 'Clark', 'Sales'); • INSERT INTO EMPLOYEE VALUES (0002, 'Dave', 'Accounting'); • INSERT INTO EMPLOYEE VALUES (0003, 'Ava', 'Sales');</p> <p>✓ fetch ✓ SELECT * FROM EMPLOYEE WHERE dept = 'Sales';</p> <p>✓ Data Types in mysql: • Numerical datatypes : • TINYINT: 1byte • SMALLINT : 2byte • MEDIUMINT - 3byte • INT : 4BYTES • BIGINT : 8bytes • Decimal(M,D) • FLOAT(M,D):-4bytes • DOUBLE(REAL):8bytes</p> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-74	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">• CREATE TABLE Employees(id INT PRIMARY KEY AUTO_INCREMENT,salary DECIMAL(10,2),bonus FLOAT);✓ SHOW TABLES;• DESC Employees;✓ if you want to store some alphanumeric values we can use string datatypes• CHAR(N)->FIXED• 2.VARCHAR(N)->VARIABLE LENGTH• 3.TEXT->4gb• 4.TINYTEXT->255 characters• 5.MEDIUMTEXT->16MB• 6.LONGTEXT->4GB• CREATE TABLE User1(username VARCHAR(50),bio TEXT);• DESC User1;	
	
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Student's Daily Log Book

Day-75	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">✓ DATE AND TIME DATA TYPES<ul style="list-style-type: none">• 1.DATE->3BYTES->YYYY-MM-DD• 2.DATETIME->8BYTES->YYYY-MM-DD HH:MM:SS• 3.timestamp->4BYTE• 4.TIME->3BYTES -> HH:MM:SS• 5.YEAR :->1BYTES -> YYYY • CREATE TABLE Orders(order_id INT PRIMARY KEY,order_date DATE, delivery_time TIME,last_updated TIMESTAMP default current_timestamp);• DESC Orders;✓ the CREATE DATABASE: command is used to create the database• synatx: CREATE DATABASE database_name; • Create table: this command is used to create the table with specific column and datatypes• Syntax: CREATE TABLE table_name(column1 datatype constraint,column2 datatype constraint ...)	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-75	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">• CREATE TABLE Employee(id INT primary KEY AUTO_INCREMENT, name VARCHAR(50) NOT NULL, age INT CHECK(age>18), department VARCHAR(50), salary DECIMAL(10,2), joining_date DATE);• DESC Employee;• INSERT -ADDING RECORDS :<ul style="list-style-type: none">• this is used to add the new row in the table• Synatx :• INSERT INTO table_name(column1,column2,...) VALUES (value1,value2...) <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-75	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">• INSERT INTO Employee(id,name,age,department,salary,joining_date)VALUES(1,'ABC',28,'IT',55000,'2021-10-10');• SELECT * FROM Employee;• INSERT INTO Employee(id,name,age,department,salary,joining_date)VALUES(2,'ARUN',30,'HR',90000,'2024-10-12');• SELECT * FROM Employee; <p>✓ the SELECT STATEMENT IS USED TO RETRIEVE DATA FROM A TABLE</p> <ul style="list-style-type: none">• SELECT PERTIVULAR COLUMN:• SYNTAX : SELECT column1,column FROM table_name;• SELECT name,department FROM Employee;• select all the columns :• syntax : SELECT * FROM table_name;• select * from Employee; <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-76	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">✓ WHERE : FILTERING RECORDS✓ the where clause is used to filter records based on the condition• syntax : SELECT column1,column2 from table_name WHERE CONDITION;• SELECT * FROM Employee WHERE department='IT';• SELECT * FROM Employee WHERE salary>60000;✓ UPDATE : this is used to modifies existing data in the table• synatx :✓ UPDATE table_name• SET column1=value1,column2=value2 WHERE CONDITION;✓ UPDATE Employee SET salary=salary*1.10 WHERE department='IT';• SELECT * FROM Employee;	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-76	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<ul style="list-style-type: none">✓ Delete :<ul style="list-style-type: none">• is used to remove recodes from table• Syntax: DELETE FROM table_name WHERE condition• CREATE TABLE Employee(id INT primary KEY , name VARCHAR(50) NOT NULL, age INT CHECK(age>18), department VARCHAR(50), salary DECIMAL(10,2), joining_date DATE);• INSERT INTO Employee(id,name,age,department,salary,joining_date)VALUES(1,'ABC',28,'IT',55000,'2021-10-10');• SELECT * FROM Employee;• DELETE FROM Employee WHERE id=1;• SELECT * FROM Employee;	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-77	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Backend coding for ojt-1 Updated frontend</p> <pre><script> document.addEventListener("DOMContentLoaded", function() { fetchRooms(); fetchBookings(); }); function fetchRooms() { fetch("get_rooms.php") .then(response => response.json()) .then(data => { let roomList = document.getElementById("room-list"); roomList.innerHTML = ""; data.forEach(room => { roomList.innerHTML += `<tr><td>\${room.room_number}</td><td>\${room.type}</td><td>\${room.status}</td></tr>`; }); }); } function fetchBookings() { fetch("get_bookings.php") .then(response => response.json()) .then(data => { let bookingList = document.getElementById("booking-list");</pre> 	
Signature of Industry Supervisor	

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Student's Daily Log Book

Day-77	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre> bookingList.innerHTML = ""; data.forEach(booking => { bookingList.innerHTML += `<tr><td>\${booking.room_number}</td><td>\${booking.guest_name}</td></tr>`; }); }); } document.getElementById("booking-form").addEventListener("submit", function(event) { event.preventDefault(); let formData = new FormData(this); fetch("add_booking.php", { method: "POST", body: formData }) .then(response => response.text()) .then(() => { fetchBookings(); document.getElementById("booking-form").reset(); }); }); </script></pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book


Day-77	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>CREATE DATABASE hotel_management; USE hotel_management; CREATE TABLE rooms (id INT AUTO_INCREMENT PRIMARY KEY, room_number VARCHAR(10) NOT NULL, type VARCHAR(50) NOT NULL, status VARCHAR(20) NOT NULL); CREATE TABLE bookings (id INT AUTO_INCREMENT PRIMARY KEY, room_number VARCHAR(10) NOT NULL, guest_name VARCHAR(100) NOT NULL, check_in DATE NOT NULL); <?php \$servername = "localhost"; \$username = "root"; \$password = ""; \$dbname = "hotel_management"; \$conn = new mysqli(\$servername, \$username, \$password, \$dbname); if (\$conn->connect_error) { die("Connection failed: " . \$conn->connect_error); } ?></pre>	
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Student's Daily Log Book


Day-78	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><?php include 'db.php'; \$sql = "SELECT * FROM rooms"; \$result = \$conn->query(\$sql); \$rooms = []; while (\$row = \$result->fetch_assoc()) { \$rooms[] = \$row; } echo json_encode(\$rooms); ?> <?php include 'db.php'; if (\$_SERVER["REQUEST_METHOD"] == "POST") { \$room_number = \$_POST["room_number"]; \$guest_name = \$_POST["guest_name"]; \$check_in = date("Y-m-d"); \$sql = "INSERT INTO bookings (room_number, guest_name, check_in) VALUES (' \$room_number', '\$guest_name', '\$check_in')"; if (\$conn->query(\$sql) === TRUE) {</pre>	


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Student's Daily Log Book


Day-78	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre> echo "Booking added successfully"; } else { echo "Error: " . \$conn->error; } } ?> <?php include 'db.php'; \$sql = "SELECT * FROM bookings ORDER BY check_in DESC"; \$result = \$conn->query(\$sql); \$bookings = []; while (\$row = \$result->fetch_assoc()) { \$bookings[] = \$row; } echo json_encode(\$bookings); ?></pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-78	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>Print Bookings</p> <pre><script> function printBookings() { let printWindow = window.open("", "", 'width=800,height=600'); printWindow.document.write('<html><head><title>Print Bookings</title></head><body>'); printWindow.document.write('<h2>Hotel Booking Records</h2>'); printWindow.document.write(document.getElementById("bookings").innerHTML); printWindow.document.write('</body></html>'); printWindow.document.close(); printWindow.print(); } </script> <?php include 'db.php'; \$sql = "SELECT * FROM bookings ORDER BY check_in DESC"; \$result = \$conn->query(\$sql); ?> <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Print Bookings</title></pre>	


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Student's Daily Log Book

Day-79	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"> </head> <body> <div class="container mt-5"> <h1 class="text-center">Booking Records</h1> <table class="table table-bordered mt-3"> <thead> <tr> <th>Room Number</th> <th>Guest Name</th> <th>Check-in Date</th> </tr> </thead> <tbody> <?php while (\$row = \$result->fetch_assoc()): ?> <tr></pre>	




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Student's Daily Log Book

Day-79	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><td><?php echo \$row['room_number']; ?></td> <td><?php echo \$row['guest_name']; ?></td> <td><?php echo \$row['check_in']; ?></td> </tr> <?php endwhile; ?> </tbody> </table> <button onclick="window.print()" class="btn btn-primary">Print</button> </div> </body> </html></pre>	
 Signature of Industry Supervisor	

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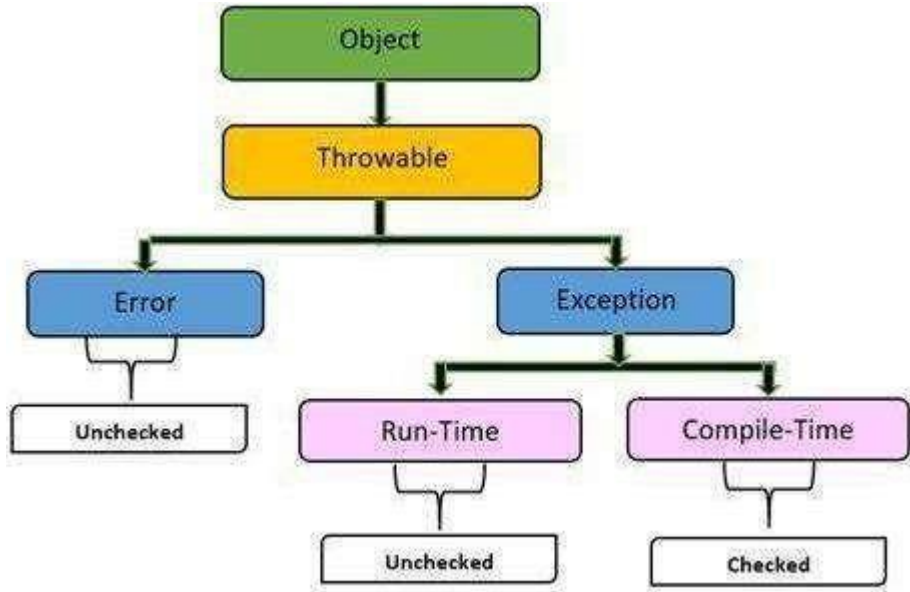
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Student's Daily Log Book


Day-80	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

- ✓ **Explained about the Exception**
exception handling is a mechanism that allows a program to deal with unexpected situations or errors during its execution. It helps in maintaining the normal flow of the program, even when an error occurs.
- ✓ **Flow of Exception**




```
graph TD; Object[Object] --> Throwable[Throwable]; Throwable --> Error[Error]; Throwable --> Exception[Exception]; Error --> Unchecked1[Unchecked]; Exception --> RunTime[Run-Time]; Exception --> CompileTime[Compile-Time]; RunTime --> Unchecked2[Unchecked]; CompileTime --> Checked[Checked];
```


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Student's Daily Log Book

Day-80	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Explained about Types of Exception</p> <ul style="list-style-type: none">• Checked Exceptions: These are exceptions that the compiler forces the programmer to handle. For example, IOException, SQLException.• Unchecked Exceptions: These are runtime exceptions, and they don't require explicit handling. For example, NullPointerException, ArrayIndexOutOfBoundsException. <p>✓ Syntax of Exception Handling in Java:</p> <ul style="list-style-type: none">• Try: Used to enclose the code that might throw an exception.• Catch: Used to catch and handle the exception if one occurs in the try block.• Finally:- block is optional, but it is executed regardless of whether an exception occurs or not. It is typically used for clean-up activities like closing a file, releasing resources, etc.• Throw:- is used to explicitly throw an exception.• Throws:- keyword is used in method declarations to specify that a method may throw an exception. <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-80	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Example</p> <pre>import java.io.*; public class ExceptionHandlingExample { public static void main(String[] args) { try { int divideByZero = 10 / 0; // Will throw ArithmeticException } catch (ArithmeticException e) { System.out.println("Error: Cannot divide by zero"); } finally { System.out.println("This block is always executed"); } try { FileReader file = new FileReader("testfile.txt"); // May throw FileNotFoundException BufferedReader fileInput = new BufferedReader(file); System.out.println(fileInput.readLine()); } catch (FileNotFoundException e) { System.out.println("File not found: " + e.getMessage()); } catch (IOException e) { System.out.println("Error reading the file: " + e.getMessage()); } finally { System.out.println("Closing file reader..."); } } }</pre>	
	
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Student's Daily Log Book

Day-80	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none">✓ JDBC: Java Database Connectivity<ul style="list-style-type: none">• API (Application Programming Interface): api is used• to transfer some data from one software to another✓ java -> mysql<ul style="list-style-type: none">• jdbc is an api that allows java applications to connect with any relational database (like MYSQL , PostgreSQL , OracleSQL or any SQL Server) and to perform database operation like CRUD• (create,read,update,delete)✓ Architecture of JDBC<ul style="list-style-type: none">• JDBC API : here we required some JDBC API methods• DBC Driver Manager:Manages different database drivers• JDBC Driver: connects java applications with a specific database• Database: actual database where data is stored.✓ JDBC Components :<ul style="list-style-type: none">• JDBC provides several important interfaces and classes:• DriverManager :- Loads the JDBC driver and establishes a connection with the database• Connection:-Represents the connection between java and the database• Statements :-Used to execute SQL queries• PreparedStatement :- A pre-compiled sql statements that prevents SQL Injection.• ResultSet :-Holds the result of an SQL query <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-81	Date:
Time of Arrival	Time of Departure
Dept/Division:- Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ JDBC STEPS:</p> <ul style="list-style-type: none">• step1 :- Load the Driver:- the JDBC driver is required to connect java to a specific database• syntax :• <code>Class.forName("com.mysql.cj.jdbc.Driver");</code>• step2 :- Establish A connection :• use the <code>DriverManager.getConnection()</code> method to establish a connection• with the database• Syntax:• <code>Connection con=DriverManager.getConnection("String url","username","password");</code>• step3:- simple queries• 1)Statement• Syntax:• <code>Statement st=con.createStatement();</code>• <code>ResultSet rd=st.executeQuery("SELECT * FROM user");</code>•	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day: 82	
Dept/Division: Software Development	Nature of work: Full Stack Development
Name of the Supervisor With designation and email ID:	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <ul style="list-style-type: none"> ✓ Explain About The Project and Example. ✓ Discussions About the today Task. ✓ Discussions About the today class doubts. ✓ Discussion About the Next Class/Session. <hr/> <pre> <%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%> <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body> <h1>Register New Student:</h1> <form> <div> <label for="studentid">Enter Your Student Id:</label>
 <input type="text" required name="studentid"/> </div> <div> <label for="studentname">Enter Your Name:</label>
 <input type="text" required name="studentname"/> </div> <div> <label for="studentemail">Enter Your Email id:</label>
 <input type="email" required name="studentemail"/> </div> <div> <label for="password">Enter Your Password:</label>
 </pre> <div style="text-align: right;">  <p>Signature of Industry Supervisor</p> </div>	


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Student's Daily Log Book

Day: 82	
Dept/Division: Software Development	Nature of work: Full Stack Development
Name of the Supervisor With designation and email ID:	
Remarks of the Training supervisor:	
<pre> <input type="password" required name="password"/> </div> <div> <label for="studentdob">Enter Your DOB:</label>
 <input type="date" name="studentdob"/> </div>
 <input type="submit" value="Submit"> </form> <% String studentid=request.getParameter("studentid"); String studentname=request.getParameter("studentname"); String studentemail=request.getParameter("studentemail"); String password=request.getParameter("password"); String studentdob=request.getParameter("studentdob"); String message=""; if(studentid!=null && studentname!=null && studentemail!=null && password!=null && studentdob!=null) { } else{ message="please fill out the data"; System.out.println(message); } %> </body> </html> </pre>	
<div style="border-top: 1px solid black; width: 100%; margin-bottom: 10px;"></div>  <p>Signature of Industry Supervisor</p>	

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Student's Daily Log Book

Day: 83	
Dept/Division: Software Development	Nature of work: Full Stack Development
Name of the Supervisor With designation and email ID:	
Remarks of the Training supervisor:	
<pre> <%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%> <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body> <h1>All Students Details:</h1> </body> </html> </pre> <hr/> <pre> <%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%> <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body> <h1>Delete Student Details:</h1> <form> <label for="studentid">Enter Your StudentId:</label>
 <input type="text" name="studentid"/>
 <input type="submit" value="Submit"/> </form> </body> </html> </pre> <div style="text-align: right;">  Signature of Industry Supervisor </div>	

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Student's Daily Log Book

Day: 83	
Dept/Division: Software Development	Nature of work: Full Stack Development
Name of the Supervisor With designation and email ID:	
Remarks of the Training supervisor:	
<pre> <%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%> <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body> <h1>Update Student Details:</h1> <form> <label for="studentid">Enter Student Id:</label>
 <input type="text" name="studentid"/>
 <input type="submit" value="Submit"/> </form> </body> </html> </pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book


Day-84	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<p>✓ Backend coding for ojt-2 Updated frontend document.addEventListener("DOMContentLoaded", function() { fetchDoctors(); fetchPatients(); }); function fetchDoctors() { fetch('backend.php?getDoctors') .then(response => response.json()) .then(data => { let table = document.getElementById("doctorsTable").getElementsByTagName('tbody')[0]; table.innerHTML = ""; data.forEach(doc => { let row = table.insertRow(); row.innerHTML = `<td>\${doc.name}</td><td>\${doc.specialization}</td><td>\${doc.contact}</td>`;  }); }); } function fetchPatients() { fetch('backend.php?getPatients') .then(response => response.json()) .then(data => { let table = }</p>	

Signature of Industry Supervisor

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Student's Daily Log Book


Day-84	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>document.getElementById("patientsTable").getElementsByTagName('tbody')[0]; table.innerHTML = ""; data.forEach(patient => { let row = table.insertRow(); row.innerHTML = `<td>\${patient.name}</td><td>\${patient.age}</td><td>\${patient.diagnosis}</td><td>\${p atient.doctor}</td>`; }); }); CREATE TABLE doctors (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255) NOT NULL, specialization VARCHAR(255) NOT NULL, contact VARCHAR(15) NOT NULL); CREATE TABLE patients (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255) NOT NULL, age INT NOT NULL, diagnosis VARCHAR(255) NOT NULL, doctor VARCHAR(255) NOT NULL);</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-84	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<div>Record Main actives of the day (including observation, sketches, discussions, etc)</div> <pre><?php \$servername = "localhost"; \$username = "root"; \$password = ""; \$dbname = "hospital_db"; // Create connection \$conn = new mysqli(\$servername, \$username, \$password, \$dbname); // Check connection if (\$conn->connect_error) { die("Connection failed: " . \$conn->connect_error); } // Add doctor if (isset(\$_POST['addDoctor'])) { \$name = \$_POST['name']; \$specialization = \$_POST['specialization']; \$contact = \$_POST['contact']; \$sql = "INSERT INTO doctors (name, specialization, contact) VALUES ('\$name', '\$specialization', '\$contact')"; if (\$conn->query(\$sql) === TRUE) { echo "Doctor added successfully"; } else { echo "Error: " . \$conn->error; } }</pre>	


Signature of Industry Supervisor

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Student's Daily Log Book

Day-85	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>} // Add patient if (isset(\$_POST['addPatient'])) { \$name = \$_POST['name']; \$age = \$_POST['age']; \$diagnosis = \$_POST['diagnosis']; \$doctor = \$_POST['doctor']; \$sql = "INSERT INTO patients (name, age, diagnosis, doctor) VALUES ('\$name', '\$age', '\$diagnosis', '\$doctor')"; if (\$conn->query(\$sql) === TRUE) { echo "Patient added successfully"; } else { echo "Error: " . \$conn->error; } } // Fetch doctors if (isset(\$_GET['getDoctors'])) { \$sql = "SELECT * FROM doctors"; \$result = \$conn->query(\$sql); \$doctors = []; while (\$row = \$result->fetch_assoc()) { \$doctors[] = \$row; } }</pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-85	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>echo json_encode(\$doctors); } // Fetch patients if (isset(\$_GET['getPatients'])) { \$sql = "SELECT * FROM patients"; \$result = \$conn->query(\$sql); \$patients = []; while (\$row = \$result->fetch_assoc()) { \$patients[] = \$row; } echo json_encode(\$patients); } \$conn->close(); ?></pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-85	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>function printTable(tableId) { let table = document.getElementById(tableId).outerHTML; let newWin = window.open("", "_blank"); newWin.document.write(` <html> <head> <title>Print Table</title> <style> table { width: 100%; border-collapse: collapse; } th, td { border: 1px solid black; padding: 8px; text-align: left; } th { background-color: #007bff; color: white; } </style> </head> <body> \${table} <script>window.onload = function() { window.print(); window.close(); }</script> </body> </html> `); newWin.document.close(); } </script> </body> </html></pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-86	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"> </head> <body> <div class="container mt-5"> <h1 class="text-center">Booking Records</h1> <table class="table table-bordered mt-3"> <thead> <tr> <th>Room Number</th> <th>Guest Name</th> <th>Check-in Date</th> </tr> </thead> <tbody> <?php while (\$row = \$result->fetch_assoc()): ?> <tr></pre>	




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Student's Daily Log Book


Day-86	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><td><?php echo \$row['room_number']; ?></td> <td><?php echo \$row['guest_name']; ?></td> <td><?php echo \$row['check_in']; ?></td> </tr> <?php endwhile; ?> </tbody> </table> <button onclick="window.print()" class="btn btn-primary">Print</button> </div> </body> </html></pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book


Day-87	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>✓ Discussion about the how to connect frontend with backend with EX:-</p> <pre>INDEX.html <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert title here</title> <style> img{ width: 100%;} .navbar{ background-color: cornsilk; padding: 10px; margin: 10px; display: flex; justify-content: space-evenly;} h1{ display: flex; justify-content: center; color: darkblue; } </style> </head> <body> <h1>Student Management System</h1> <header> <ul class="navbar"> Home Add New Student Update Student Details List Of Students Delete The Record</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>

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Student's Daily Log Book

Day-87	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre> </header> <footer> <p>Add Your Options </p> </footer> </body> </html></pre> <p><u>Add New Students</u></p> <pre><%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%> <%@ page import="java.sql.*"%> <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body> <h1>Register New Student</h1> <form> <div> <label for="StudentId">Enter Your StudentID : </label>
 <input type="text" required name="studentId"> </div> <div></pre> <p style="text-align: right;"> Signature of Industry Supervisor</p>	

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Student's Daily Log Book

Day-87	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	

Record Main actives of the day (including observation, sketches, discussions, etc)

<label for="Studentname">Enter Your Name : </label>
<input type="text" name="Studentname"></div></div><div><label for="Studentemail">Enter Your Email : </label>
<input type="email" name="Studentemail"></div></div><div><label for="Studentphone">Enter Your Phone : </label>
<input type="text" name="Studentphone"></div></div><div><label for="Studentpassword">Enter Your Password :</div></label>
<input type="password" name="Studentpassword"></div></div><div><label for="Studentdob">Enter Your DOB : </label>
<input type="date" name="Studentdob"></div>
<input type="submit" value="Submit"></form><%String studentId=request.getParameter("studentId");String Studentname=request.getParameter("Studentname");String Studentemail=request.getParameter("Studentemail");String Studentphone=request.getParameter("Studentphone");String Studentpassword=request.getParameter("Studentpassword");




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Student's Daily Log Book

Day-87	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>String Studentdob=request.getParameter("Studentdob"); String message=""; if(studentId != null && Studentname!=null && Studentemail!=null &&Studentphone!=null &&Studentpassword!=null && Studentdob!=null) { try{ Class.forName("com.mysql.cj.jdbc.Driver"); //Connection Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/student_management_syst em", "root", "admin"); PreparedStatement ps=con.prepareStatement("INSERT INTO student_details(s_id,s_name,email,phone,password,dob)VALUES(?,?,?,?,?,?)"); ps.setInt(1,Integer.parseInt(studentId)); ps.setString(2,Studentname); ps.setString(3,Studentemail); ps.setString(4,Studentphone); ps.setString(5,Studentpassword); ps.setString(6,Studentdob); int i=ps.executeUpdate(); if(i>0) { message="Registered"; } } }</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-87	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>else { message="Not Registered"; } catch(Exception e)//super class this is present in java.lang package //because it is a default package { message="Error"; e.printStackTrace(); } } else { message="Please Enter The Data"; System.out.println(message); } %> </body> </html></pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book

Day-88	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p><u>AllStudentsDetails.jsp</u></p> <pre><%@ page import="java.sql.*"%> <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%> <!DOCTYPE html> <html> <head> <meta charset="UTF-8"> <title>Student Information</title> <style> table { border-collapse: collapse; width: 50%; margin: auto; } th, td { border: 1px solid black; padding: 8px; text-align: left; } th { background-color: #f2f2f2; } </style> </head> <body> <h2>Student Information</h2></pre>	
<div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-88	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><table> <tr> <th>User ID</th> <th>Username</th> <th>Email</th> <th>Password</th> </tr> <% try { Class.forName("com.mysql.cj.jdbc.Driver"); Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/user", "root", "admin"); PreparedStatement ps = con.prepareStatement("SELECT * FROM user_table"); ResultSet rs = ps.executeQuery(); while(rs.next()) { String userid = rs.getString("userid"); String username = rs.getString("username"); String email = rs.getString("email"); String password = rs.getString("password"); %> <tr> <td><%= userid %></td> <td><%= username %></td> <td><%= email %></td> <td><%= password %></td> </tr> <%</pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-89	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre>} rs.close(); ps.close(); con.close(); } catch(Exception e) { out.println("Error: " + e.getMessage()); } %> </table> </body> </html> DeleteStudentRecord.jsp <%@ page import="java.sql.*"%> <%@ page language="java" contentType="text/html; charset=ISO-8859-1" pageEncoding="ISO-8859-1"%> <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Edit Student</title> </head> <body> <h1>Edit Student</h1> <form method="post"> <!-- Change method to POST --> <label for="userid">Enter Your UserID : </label> <input type="text" name="userid">


</pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book

Day-89	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <pre><input type="submit" value="Submit">


 </form> <% // Check if an ID parameter is provided String userIdParam = request.getParameter("userid"); if (userIdParam != null) { // If ID parameter is provided, retrieve student details from the database and populate the form try { // Establish database connection Class.forName("com.mysql.cj.jdbc.Driver"); Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/user", "root", "admin"); PreparedStatement ps = con.prepareStatement("SELECT * FROM user_table WHERE userid = ?"); ps.setInt(1, Integer.parseInt(userIdParam)); ResultSet rs = ps.executeQuery(); // Check if student exists if (rs.next()) { // Populate form fields with existing data String userId = rs.getString("userid"); String username = rs.getString("username"); String email = rs.getString("email"); String password = rs.getString("password"); %> <form method="post"> <!-- Change method to POST --> <input type="hidden" name="userid" value="<%= userId %>"> <div></pre> 	

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Student's Daily Log Book

Day-89	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p>Record Main actives of the day (including observation, sketches, discussions, etc)</p> <p>User ID:</p> <pre><%= userId %>
 <input type="text" name="username" value="<%= username %>" placeholder="Enter Your User Name">
 <input type="email" name="email" value="<%= email %>" placeholder="Enter Your EmailID">
 <input type="password" name="password" value="<%= password %>" placeholder="Enter Your Password">
 <input type="submit" name="action" value="Update"> <input type="submit" name="action" value="Delete"> </div> </form> <% } else { out.println("User not found"); } // Close resources rs.close(); ps.close(); con.close(); } catch(Exception e) { out.println("Error: " + e.getMessage()); e.printStackTrace(); } } else { out.println("User ID not provided"); } if ("POST".equalsIgnoreCase(request.getMethod())) {</pre> <div style="text-align: right;"> Signature of Industry Supervisor</div>	

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Student's Daily Log Book


Day-90	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<div>Record Main actives of the day (including observation, sketches, discussions, etc)</div> <pre>// Form submitted via POST method String action = request.getParameter("action"); if ("Update".equals(action)) { String username = request.getParameter("username"); String email = request.getParameter("email"); String password = request.getParameter("password"); if (username != null && !username.isEmpty()) { // Update database only if username is not null or empty try { // Establish database connection Class.forName("com.mysql.cj.jdbc.Driver"); Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/user", "root", "admin"); PreparedStatement ps = con.prepareStatement("UPDATE user_table SET username=?, email=?, password=? WHERE userid=?"); ps.setString(1, username); ps.setString(2, email); ps.setString(3, password); ps.setInt(4, Integer.parseInt(userIdParam)); int rowsAffected = ps.executeUpdate(); // Check if update was successful if (rowsAffected > 0) { out.println("Data updated successfully."); } else { out.println("Failed to update data."); } } catch (Exception e) { e.printStackTrace(); } } }</pre>	
 Signature of Industry Supervisor	

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Student's Daily Log Book


Day-90	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<div>Record Main actives of the day (including observation, sketches, discussions, etc)</div> <pre> } // Close resources ps.close(); con.close(); } catch(Exception e) { out.println("Error: " + e.getMessage()); e.printStackTrace(); } } else { out.println("Username cannot be empty."); } } else if ("Delete".equals(action)) { // Delete record try { // Establish database connection Class.forName("com.mysql.cj.jdbc.Driver"); Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/user", "root", "admin"); PreparedStatement ps = con.prepareStatement("DELETE FROM user_table WHERE userid=?"); ps.setInt(1, Integer.parseInt(userIdParam)); int rowsAffected = ps.executeUpdate(); // Check if deletion was successful if (rowsAffected > 0) { out.println("Record deleted successfully."); } else</pre>	


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Student's Daily Log Book

Day-90	Date:
Time of Arrival-	Time of Departure-
Dept/Division:-Software Development	Nature of work:-Full Stack Development
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
Record Main actives of the day (including observation, sketches, discussions, etc)	
<pre> out.println("Failed to delete record."); } // Close resources ps.close(); con.close(); } catch(Exception e) { out.println("Error: " + e.getMessage()); e.printStackTrace(); } } } %> </body> </html></pre>	
	
Signature of Industry Supervisor	