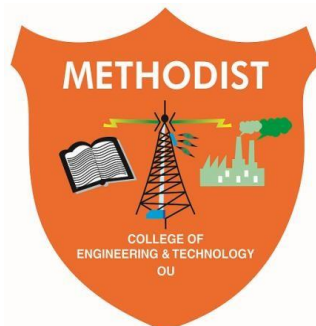




METHODIST
COLLEGE OF ENGINEERING & TECHNOLOGY
[Autonomous Institution]

Accredited by NAAC with A+ and NBA
Affiliated to Osmania University & Approved by AICTE



LABORATORY MANUAL

WEB TECHNOLOGIES

LABORATORY

BE VI Semester AY 2023-24

NAME: _____

ROLL NO: _____

BRANCH: _____ SEM: _____

**DEPARTMENT OF COMPUTER SCIENCE &
ENGINEERING**

Empower youth- Architects of Future World

VISION

To produce ethical, socially conscious and innovative professionals who would contribute to sustainable technological development of the society.

MISSION

To impart quality engineering education with latest technological developments and interdisciplinary skills to make students succeed in professional practice.

To encourage research culture among faculty and students by establishing state of art laboratories and exposing them to modern industrial and organizational practices.

To inculcate humane qualities like environmental consciousness, leadership, social values, professional ethics and engage in independent and lifelong learning for sustainable contribution to the society.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION & MISSION

VISION

To become a leader in providing Computer Science & Engineering education with emphasis on knowledge and innovation.

MISSION

- To offer flexible programs of study with collaborations to suit industry needs.
- To provide quality education and training through novel pedagogical practices.
- To expedite high performance of excellence in teaching, research and innovations.
- To impart moral, ethical values and education with social responsibility.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES

After 3-5 years of graduation, the graduates will be able to

- PEO1:** Apply technical concepts, Analyze, Synthesize data to Design and create novel products and solutions for the real life problems.
- PEO2:** Apply the knowledge of Computer Science Engineering to pursue higher education with due consideration to environment and society.
- PEO3:** Promote collaborative learning and spirit of team work through multidisciplinary projects
- PEO4:** Engage in life-long learning and develop entrepreneurial skills.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM OUTCOMES

Engineering graduates will be able to:

P01: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

P02: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

P03: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

P04: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

P05: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

P06: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

P07: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

P08: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

P09: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

P010: Communication: Communicate effectively on complex engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

P011: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

P012: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES

At the end of 4 years, Computer Science and Engineering graduates at MCET will be able to:

PS01: Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments.

PS02: Develop software applications with open-ended programming environments.

PS03: Design and develop solutions by following standard software engineering principles and implement by using suitable programming languages and platforms

Course Code	Course Title					Core/Elective	
3PC662CS	WEB TECHNOLOGY LAB					Core	
Prerequisite	Contact Hours per Week				CIE	SEE	Credits
	L	T	D	P			
ATD	-	-	-	2*2	40	60	2

COURSE OBJECTIVES:

1. To develop an ability to design and implement static and dynamic website.
2. Choose best technologies for solving web client/server problems.
3. Use JavaScript & PHP to validate form input entry.
4. Use appropriate client-side or Server-side applications.
5. Handling Cookies and Sessions using PHP, SERVLETS and JSP.

COURSE OUTCOMES :

After the completion of course the students will be able to:

1. Create web pages using HTML and Cascading Styles sheets.
2. Develop web applications using PHP.
3. write a well formed / valid XML document.
4. Write a server side java application.
5. Compare Servlet and JSP concepts and apply JSP concepts to create dynamic web pages by reducing the code complexity.

List of Programs

1. Develop static pages (using Only HTML) of an online book store. The pages should resemble: www.amazon.com. The website should consist the following pages.
 - a) Home page
 - b) Registration and user Login
 - c) User Profile Page
 - d) Books catalog
 - e) Shopping Cart
 - f) Payment By credit card
 - g) Order Conformation

2. Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.
3. Create and save an XML document on the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.
4. Write a PHP script to print prime numbers between 1-50.
5. PHP script to
 - a. Find the length of a string.
 - b. Count no of words in a string.
 - c. Reverse a string.
 - d. Search for a specific string.
6. Write a PHP script to merge two arrays and sort them as numbers, in descending order.
7. Write a PHP script that reads data from one file and write into another file.
8. Develop a Servlet to validate user name and password with the data stored in Servlet configuration file. Display authorized user if she/he is authorized else display Unauthorized user.
9. Write JSP Program to store student information sent from registration page into database table.
10. Develop a program to validate username and password that are stored in Database table using JSP.

TEXT BOOKS

1. WEB TECHNOLOGIES: A Computer Science Perspective, Jeffrey C. Jackson, Pearson Education

REFERENCE BOOKS

1. Deitel H.M. and Deitel P.J., "Internet and World Wide Web How to program", Pearson International, 2012, IV Edition.
2. J2EE: The complete Reference By James Keogh, McGraw-Hill
3. Bai and Ekedhi, The Web Warrior Guide to Web Programming, Thomson
4. Paul Dietel and Harvey Deitel, "Java How to Program", Prentice Hall of India, VIII Edition
5. Web technologies, Black Book, Dreamtech press. Gopalan N.P. and Akilandeswari J., "Web Technology", Prentice Hall of Ind.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes (CO's):

SUBJECT NAME: WEB TECHNOLOGIES LAB

CODE: 3PC662CS

SEMESTER: VI

CO No.	Course Outcome	Taxonomy Level
3PC662CS.1	Create web pages using HTML and Cascading Styles sheets.	Creating
3PC662CS.2	Develop web applications using PHP.	Applying
3PC662CS.3	Write a well-formed / valid XML document.	Creating
3PC662CS.4	Write a server side java application.	Creating
3PC662CS.5	Compare Servlet and JSP concepts and apply JSP concepts to create dynamic web pages by reducing the code complexity.	Applying

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GENERAL LABORATORY INSTRUCTIONS

1. Students are advised to come to the laboratory at least 5 minutes before (to starting time), those who come after 5 minutes will not be allowed into the lab.
2. Plan your task properly much before to the commencement, come prepared to the lab with the program / experiment details.
3. Student should enter into the laboratory with:
 - a. Laboratory observation notes with all the details (Problem statement, Aim, Algorithm, Procedure, Program, Expected Output, etc.,) filled in for the lab session.
 - b. Laboratory Record updated up to the last session experiments.
 - c. Formal dress code and Identity card.
4. Sign in the laboratory login register, write the TIME-IN, and occupy the computer system allotted to you by the faculty.
5. Execute your task in the laboratory, and record the results / output in the lab observation note book, and get certified by the concerned faculty.
6. All the students should be polite and cooperative with the laboratory staff, must maintain the discipline and decency in the laboratory.
7. Computer labs are established with sophisticated and high end branded systems, which should be utilized properly.
8. Students / Faculty must keep their mobile phones in SWITCHED OFF mode during the lab sessions. Misuse of the equipment, misbehaviours with the staff and systems etc., will attract severe punishment.
9. Students must take the permission of the faculty in case of any urgency to go out. If anybody found loitering outside the lab / class without permission during working hours will be treated seriously and punished appropriately.
10. Students should SHUT DOWN the computer system before he/she leaves the lab after completing the task (experiment) in all aspects. He/she must ensure the system / seat is kept properly.

Head of the Department

Principal

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CODE OF CONDUCT FOR THE LABORATORY

- All students must observe the dress code while in the laboratory
- Footwear is NOT allowed
- Foods, drinks and smoking are NOT allowed
- All bags must be left at the indicated place
- The lab timetable must be strictly followed
- Be PUNCTUAL for your laboratory session
- All programs must be completed within the given time
- Noise must be kept to a minimum
- Workspace must be kept clean and tidy at all time
- All students are liable for any damage to system due to their own negligence
- Students are strictly PROHIBITED from taking out any items from the laboratory
- Report immediately to the lab programmer if any damages to equipment

BEFORE LEAVING LAB:

- Arrange all the equipment and chairs properly.
- Turn off / shut down the systems before leaving.
- Please check the laboratory notice board regularly for updates.

Lab In – charge

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LIST OF EXPERIMENTS

S. No.	Name of Experiment	Date of Experiment	Date of Submission	Page No.	Faculty Signature
1	Develop static pages (using Only HTML) of an online bookstore. The pages should resemble www.amazon.com. The website should consist the following pages. a) Home page b) Registration and user Login c) User Profile Page d) Books catalog e) Shopping Cart f) Payment By credit card g) Order Conformation				
2	Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.				
3	Create and save an XML document on the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.				
4	Write a PHP script to print prime numbers between 1-50.				
5	PHP script to a. Find the length of a string. b. Count no of words in a string. c. Reverse a string. d. Search for a specific string.				
6	Write a PHP script to merge two arrays and sort them as numbers, in descending order				
7	Write a PHP script that reads data from one file and write into another file				

8	Develop a Servlet to validate user name and password with the data stored in Servlet configuration file. Display authorized user if she/he is authorized else display Unauthorized user.				
9	Write JSP Program to store student information sent from registration page into database table.				
10	Develop a program to validate username and password that are stored in Database table using JSP				

ADDITIONAL EXPERIMENTS

S. No.	Name of Experiment	Date of Experiment	Date of Submission	Page No.	Faculty Signature
11	Design an website for user profile using HTML and CSS				
12	Write a JavaScript to implement a calculator				

- 1 Develop static pages (using Only HTML) of an online bookstore. The pages should resemble www.amazon.com. The website should consist the following pages.
 - a) Home page
 - b) Registration and user Login
 - c) User Profile Page
 - d) Books catalog
 - e) Shopping Cart
 - f) Payment By credit card
 - g) Order Conformation

index.html

```
<html>
<head>
  <title> Welcome to FBS e-Book's website</title>
</head>
<frameset rows="24%,*" >
  <frame name=top src="top.html" noresize frameborder=0 scrolling=no />
  <frameset cols="15%,*">
    <frame name="left" noresize scrolling="no" frameborder=0 src="left.html">
    <frame name="right" noresize frameborder=0 src="right.html">
  </frameset>
</frameset>
</html>
```

top.html

```
<html>
<head>
  <title> Welcome to FBS e-Book's Website</title>
</head>
<body>
<table width="100%" align="center" cellpadding="0" cellspacing="2">
<tr>
  <th width="20%"></th>
  <th colspan=4>
    <h1 style="color:red;">FBS - WORLD BEST ONLINE EBOOKS WEBSITE</h1>
  </th>
</tr>
<tbody align="center" bgcolor="#e68aaa" style="font-weight:bold;font-size:18px;">
<tr>
```


login.html

```
<html>
<head>
  <title> Welcome to FBS e-Book's Website</title>
</head>
<body >
<center><br>
<h3> Login Details</h3> <br/>
  <form name="f1">
    <table align="center" >
      <tr>
        <td> User Name : </td>
        <td> <input type="text" name="username"></td>
      </tr>
      <tr><td><br></td></tr>
      <tr>
        <td> Password : </td>
        <td> <input type="password" name="password"></td>
      </tr>
      <tr><td><br></td></tr>
      <tr><td></td>
        <td><input type="submit" value="SUBMIT">
        <input type="reset" value="RESET"></td>
      </tr>
    </table>
  </form>
</center>
</body>
</html>
```

registration.html

```
<html>
<head>
  <title> Welcome to FBS e-Book's Website</title>
</head>
<body>
<center><br>
  <h3>Registration Form </h3>
  <br/>
  <form name="f1">
    <table cellpadding="1" align="center" >
      <tr><td> Name:*</td>
```



```
<td><input type="text" name="username"></td></tr>
<tr><td>Password:*</td>
<td><input type="password" name="password"></td></tr>
<tr><td>Email ID:*</td>
<td><input type="text" name="email"></td></tr>
<tr><td>Phone Number:*</td>
<td><input type="text" name="phno"></td></tr>
<tr><td valign="top">Gender:*</td>
<td><input type="radio" name="radio" value="1">Male &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~<br>
<input type="radio" name="radio" value="2">Female</td></tr>
<tr> <td valign="top">Language Known:*</td>
<td> <input type="checkbox" name="checkbox" value="English">English<br/>
<input type="checkbox" name="checkbox" value="Telugu">Telugu<br>
<input type="checkbox" name="checkbox" value="Hindi">Hindi<br>
<input type="checkbox" name="checkbox" value="Tamil">Tamil
</td></tr>
<tr> <td valign="top">Address:*</td>
<td><textarea name="address"></textarea></td>
<tr><td></td><td><input type="submit" value="submit" hspace="10">
<input type="reset" value="reset"></td></tr>
<tr> <td colspan=2 >*<font color="#FF0000">fields are mandatory</font>
</td>
</tr>
</table>
</form>
</center>
</body>
</html>
```

userprofile.html

```
<!doctype html>
<html lang="en">
<head>
  <title>User Profile</title>
</head>
<body><br><br>
  <h1 align="center">User Profile</h1><br>
  <table width="30%" align="center">
    <tr>
      <td>
        <strong>First Name : </strong> <br> <input type="text" value="Madhu"></input>
      </td>
    </tr>
  </table>
</body>
</html>
```

```

<td>
<strong>Last Name : </strong> <br> <input type="text" value="T"></input>
</td>
</tr>
<tr>
<td>
<strong>Email ID : </strong> <br> <input type="text"
value="madhu.t@studyglance.com"></input>
</td>
<td>
<strong>Phone Number : </strong> <br> <input type="text"
value="9988665544"></input>
</td>
</tr>
<tr>
<td>
<strong>Address : </strong> <br> <textarea rows="5" cols="15">Main Street, Good
Area, Popular City, Best Country</textarea>
</td>
<td>
</img>
</td>
</tr>
<tr>
<td><br/></td>
</tr>
<tr>
<td colspan="2" align="center">
<input type="button" value="Update"></input>
</td>
</tr>
</tr>
</table>
</body>
</html>

```

cse.html

```

<html>
<head>
<title> Welcome to FBS e-Book's website</title>
</head>
<body>

```

```

<center><br>
<h2>Computer Science & Engineering Catalogue </h2>
  <table width=90% align="center" bgcolor="#ffe1bf">
    <tbody bgcolor="#ff6600">
      <th width="25%"><hr>BOOK<hr></th>
      <th width="35%"><hr>DETAILS<hr></th>
      <th width="20%"><hr>PRICE<hr></th>
      <th width="20%"><hr>OPTION<hr></th></tbody>
    <tbody align="center">
      <tr>
        <td align="center"></td>
        <td align="center"> Title: C - Programming<br> Author: E.Balaguru Swamy <br/>
        Publisher:Tata Mc.Grawhill</td>
        <td align="center">Rs. 1200/-</td>
        <td align="center"> <input type="button" value="Add to cart"></td>
      </tr>
      <tr>
        <td align="center"></td>
        <td align="center"> Title: Computer Networks<br>Author: M.Ananda Rao r<br/>
        Publisher:ARS Publications</td>
        <td align="center">Rs. 1000/-</td>
        <td align="center"> <input type="button" value="Add to cart"></td>
      </tr>
      <tr>
        <td align="center"></td>
        <td align="center"> Title: Java Programming<br>Author: Jhanaki
        Ramaya<br>Publisher:Matches Publications</td>
        <td align="center">Rs. 2300/-</td>
        <td align="center"> <input type="button" value="Add to cart"></td>
      </tr>
      <tr>
        <td align="center"></td>
        <td align="center"> Title: Web Technologies<br>Author: Uttam K.Roy
        <br/>Publisher:Oxpord Publications</td>
        <td align="center">Rs. 3000/-</td>
        <td align="center"> <input type="button" value="Add to cart"></td>
      </tr>
    </tbody>
  </table>
</center>
</body>
</html>

```

ece.html

```

<html>
<head>
  <title> Welcome to FBS e-Book's website</title>
</head>
<body>
<center><br>
<h2>Electronics & Communication Engineering Catalogue </h2>
  <table width=90% align="center" bgcolor="#c4c4ff">
    <tbody bgcolor="#5b5bff">
      <th width="25%"><hr>BOOK<hr></th>
      <th width="35%"><hr>DETAILS<hr></th>
      <th width="20%"><hr>PRICE<hr></th>
      <th width="20%"><hr>OPTION<hr></th></tbody>
    <tbody align="center">
      <tr>
        <td align="center"></td>
        <td align="center"> Title: Analog Digital Communications <br> Author: Meru Babu
      <br/>
        Publisher:Schuem Outlines</td>
        <td align="center">Rs. 1200/-</td>
        <td align="center"> <input type="button" value="Add to cart"></td>
      </tr>
      <tr>
        <td align="center"></td>
        <td align="center"> Title: Anntena Theory<br>Author: M.Dileep Kumar
      <br/>Publisher:BRS Publications</td>
        <td align="center">Rs. 800/-</td>
        <td align="center"> <input type="button" value="Add to cart"></td>
      </tr>
      <tr>
        <td align="center"></td>
        <td align="center"> Title: Gate Study Metireal<br>Author: Bill Joy
      <br/>Publisher:Pearson Publications</td>
        <td align="center">Rs. 8200/-</td>
        <td align="center"> <input type="button" value="Add to cart"></td>
      </tr>
    </tbody>
  </table>
</center>
</body>
</html>

```

it.html

```

<html>
<head>
  <title> Welcome to FBS e-Book's website</title>
</head>
<body>
<center><br>
<h2>Information Technologies Catalogue </h2>
  <table width=90% align="center" bgcolor="#bffffb">
    <tbody bgcolor="#03f515">
      <th width="25%"><hr>BOOK<hr></th>
      <th width="35%"><hr>DETAILS<hr></th>
      <th width="20%"><hr>PRICE<hr></th>
      <th width="20%"><hr>OPTION<hr></th></tbody>
      <tbody align="center">
        <tr>
          <td align="center"></td>
          <td align="center"> Title: Let Us C <br> Author: Yeswant kanetkar <br/>
            Publicher:Tata Mc.Grawhill</td>
          <td align="center">Rs. 4200/-</td>
          <td align="center"> <input type="button" value="Add to cart"></td>
        </tr>
        <tr>
          <td align="center"></td>
          <td align="center"> Title: Python Programming<br>Author: M.Kiran Kumar
r<br/>Publicher:ARS Publications</td>
          <td align="center">Rs. 1100/-</td>
          <td align="center"> <input type="button" value="Add to cart"></td>
        </tr>
        <tr>
          <td align="center"></td>
          <td align="center"> Title: Web Programming<br/>Author: Uttam K.Roy
<br/>Publicher:Oxpord Publications</td>
          <td align="center">Rs. 6200/-</td>
          <td align="center"> <input type="button" value="Add to cart"></td>
        </tr>
      </tbody>
    </table>
</center>
</body>
</html>

```

cart.html

```

<html>
<head>
  <title> Welcome to FBS e-Book's website</title>
</head>
<body>
  <center>
    <h3>Cart</h3>
    <table width="90%" align="center" bgcolor="#ffe479">
      <tbody bgcolor="#ff7c5b">
        <tr>
          <th width="40%"><hr>BookName<hr></th>
          <th width="20%"><hr>Price<hr></th>
          <th width="20%"><hr>Quantity<hr></th>
          <th width="20%"><hr>Amount<hr></th> </tr>
        </tbody>
        <tbody align=center>
          <tr> <td>Java Programming </td>
            <td>Rs. 2300/-</td>
            <td>2</td>
            <td>Rs. 4600/-</td></tr>
          <tr><td>Web Technologies</td>
            <td>Rs. 3000/-</td>
            <td>1</td>
            <td>Rs. 3000/-</td></tr>
          <tr><td></td>
            <td><hr><font color="#996600">Total Amount:</font><hr></td>
            <td><hr>3<hr></td>
            <td><hr>Rs. 7600/-<hr></td> </tr>
          <tr><td></td>
            <td></td>
            <td></td>
            <td></td>
            <td><input type="button" value="Pay By Credit Card"
onclick='window.location.assign("paybycreditcard.html")'></input><br><br></td>
          </tr>
        </tbody>
      </table>
    </center>
  </body>
</html>

```

paybycreditcard.html

```

<!doctype html>
<html lang="en">
<head>
  <title>Payment By Credit Card</title>
</head>
<body>
  <br><br>
  <h1 align="center">Payment By Credit Card</h1><br>
  <table width="30%" align="center">
    <tr>
      <td><strong>Card Number : </strong> </td>
      <td><input type="text" placeholder="xxxx-xxxx-xxxx-xxxx" required></input> </td>
    </tr>
    <tr>
      <td><br></td>
    </tr>
    <tr>
      <td><strong>Exp Date: </strong></td>
      <td><input type="text" placeholder="xx / xx" required></input></td>
    </tr>
    <tr>
      <td><br></td>
    </tr>
    <tr>
      <td><strong>CVV : </strong></td>
      <td><input type="password" placeholder="xxx" required></input></td>
    </tr>
    <tr>
      <td><br></td>
    </tr>
    <tr>
      <td><strong>Name on the Card : </strong></td>
      <td><input type="text" placeholder="Name of the card" required></input></td>
    </tr>
    <tr>
      <td><br></td>
    </tr>
    <td colspan="2" align="center">

```

```

<input type="button" value="Pay"
onclick='window.location.assign("orderconf.html")'></input> &nbsp;&nbsp;&nbsp;<input
type="button" value="Cancel"></input>
</td>
</tr>
</table>
</body>
</html>

```

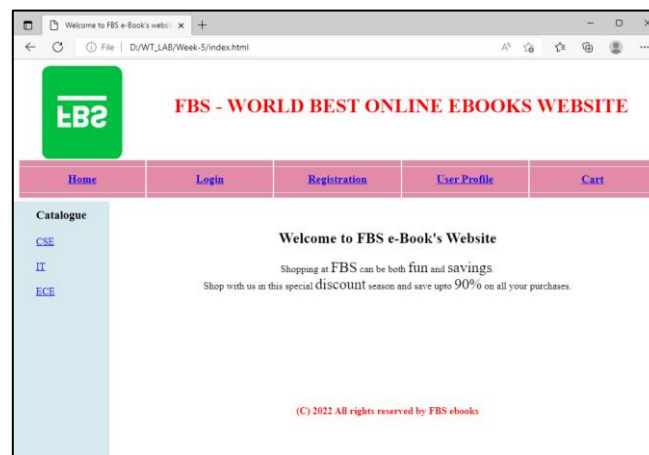
orderconf.html

```

<!doctype html>
<html lang="en">
<head>
<title>Order Confirmation</title>
</head>
<body><br><br>
<center>
<h1> Thank you for your purchase!</h2><br><br>
<h2 style="color:#009900"> Payment Successful </h3><br>
<h3> Order Info :</h3>
<strong>Books :</strong> 3<br><br>
<strong>Total Amount :</strong> Rs. 7600/-<br><br>
</center>
</body>
</html>

```

Output:



Welcome to FBS e-Book's website

FBS - WORLD BEST ONLINE EBOOKS WEBSITE

[Home](#) [Login](#) [Registration](#) [User Profile](#) [Cart](#)

Catalogue

[CSE](#)
[IT](#)
[ECE](#)

Login Details

User Name :

Password :

Welcome to FBS e-Book's website

FBS - WORLD BEST ONLINE EBOOKS WEBSITE

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Registration Form

Name.*

Password.*

Email ID.*

Phone Number.*

Gender.* ☐ Male ☐ Female

Language Known.* ☐ English
☐ Telugu
☐ Hindi
☐ Tamil

Address.*

*fields are mandatory

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User Profile

First Name : Last Name :

Email ID : Phone Number :

Address :

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File | D:/WT_LAB/Week-5/index.html





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	Title: Let Us C Author: Yeshwant kanedkar Publisher: Tata Mc.Grawhill	Rs. 4200/-	Add to cart
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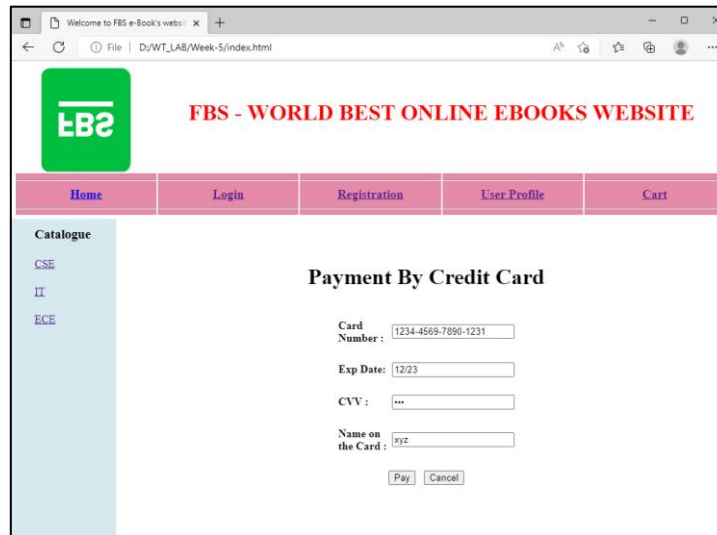
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Cart

BookName	Price	Quantity	Amount
Java Programming	Rs. 2300/-	2	Rs. 4600/-
Web Technologies	Rs. 3000/-	1	Rs. 3000/-
Total Amount:		3	Rs. 7600/-

[Pay By Credit Card](#)



- 2 **Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.**

User Login

```
<!DOCTYPE html>
<html >
<head>
<title>User Login</title>
<script>
    function validateLogin() {
        const username = document.getElementById("username").value;
        const password = document.getElementById("pass").value;

        if (!username || !password) {
            alert("Please fill in all fields.");
            return false;
        }

        if (password.length < 8 || password.length > 20) {
            alert("Password must be between 8 and 20 characters.");
            return false;
        }

        // If all validations pass
        alert("Login successful!");
        return true;
    }
}
```

```

</script>
</head>
<body>

<h2>User Login</h2>

<form name="loginForm" onsubmit="return validateLogin()">
  <label for="username">Username:</label><br>
  <input type="text" id="username" name="username" required><br><br>

  <label for="pass">Password:</label><br>
  <input type="password" id="pass" name="pass" required><br><br>

  <input type="submit" value="Login">
</form>

</body>
</html>

```

Output:



The screenshot displays a web form titled "User Login". It contains two input fields: one for "Username" and one for "Password". Below the password field is a "Login" button. The form is styled with a simple border and standard web fonts.

Registration.html

```

<!DOCTYPE html>
<html >
<head>
<title>User Registration</title>
<script>
function validateRegistration() {
  var username = document.getElementById('username').value;
  var email = document.getElementById('email').value;
  var password = document.getElementById('password').value;
  var confirmPassword = document.getElementById('confirm-password').value;
  var regex = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;

```

```
if (!username || !email || !password || !confirmPassword) {
    alert('All fields are required.');
```

```
    return false;
}

if (!regex.test(email)) {
    alert('Please enter a valid email address.');
```

```
    return false;
}

if (password !== confirmPassword) {
    alert('Passwords do not match.');
```

```
    return false;
}

if (password.length < 6) {
    alert('Password must be at least 6 characters long.');
```

```
    return false;
}

// If all validations pass
alert('Registration successful!');
```

```
return true;
}
</script>
</head>
<body>

<h2>User Registration</h2>

<form name="registrationForm" onsubmit="return validateRegistration()">
    <label for="username">Username:</label><br>
    <input type="text" id="username" name="username"><br><br>

    <label for="email">Email:</label><br>
    <input type="email" id="email" name="email"><br><br>

    <label for="password">Password:</label><br>
    <input type="password" id="password" name="password"><br><br>

    <label for="confirm-password">Confirm Password:</label><br>
```

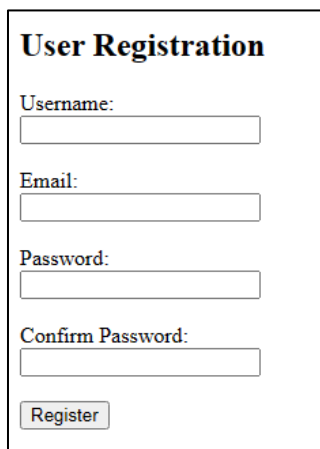
```
<input type="password" id="confirm-password" name="confirm-  
password"><br><br>
```

```
<input type="submit" value="Register">  
</form>
```

```
</body>
```

```
</html>
```

Output:



User Registration

Username:

Email:

Password:

Confirm Password:

Payment.html

```
<!DOCTYPE html>  
<html >  
<head>  
<title>Payment by Credit Card</title>  
<script>  
  function validatePayment() {  
    const cardNumber = document.getElementById("card-number").value;  
    const expiryDate = document.getElementById("expiry-date").value;  
    const cvv = document.getElementById("cvv").value;  
    if (!cardNumber || !expiryDate || !cvv) {  
      alert("All fields are required.");  
      return false;  
    }  
  
    if (cardNumber.length !== 16 || isNaN(cardNumber)) {  
      alert("Please enter a valid 16-digit card number.");  
      return false;  
    }  
  }  
</script>
```

```
        if (!/^(0[1-9]|1[0-2])\?([0-9]{2})$/.test(expiryDate)) {
            alert("Please enter a valid expiry date in MM/YY format.");
            return false;
        }

        if (cvv.length !== 3 || isNaN(cvv)) {
            alert("Please enter a valid 3-digit CVV.");
            return false;
        }

        // If all validations pass
        alert("Payment successful!");
        return true;
    }
</script>
</head>
<body>

<h2>Payment by Credit Card</h2>

<form name="paymentForm" onsubmit="return validatePayment()">
    <label for="card-number">Card Number:</label><br>
    <input type="text" id="card-number" name="card-number" required><br><br>

    <label for="expiry-date">Expiry Date (MM/YY):</label><br>
    <input type="text" id="expiry-date" name="expiry-date" required><br><br>

    <label for="cvv">CVV:</label><br>
    <input type="text" id="cvv" name="cvv" required><br><br>

    <input type="submit" value="Pay">
</form>

</body>
</html>
```

Output:

Payment by Credit Card
Card Number:

Expiry Date (MM/YY):

CVV:

- 3 **Create and save an XML document on the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.**

User info.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<users>
  <user id="1">
    <name>User 1</name>
    <email>user1@example.com</email>
    <address>hahahah</address>
  </user>
  <user id="2">
    <name>User 2</name>
    <email>user2@example.com</email>
  </user>
  <user id="3">
    <name>User 3</name>
    <email>user3@example.com</email>
  </user>
  <user id="4">
    <name>User 4</name>
    <email>user4@example.com</email>
  </user>
  <user id="5">
    <name>User 5</name>
    <email>user5@example.com</email>
  </user>
  <user id="6">
    <name>User 6</name>
    <email>user6@example.com</email>
```

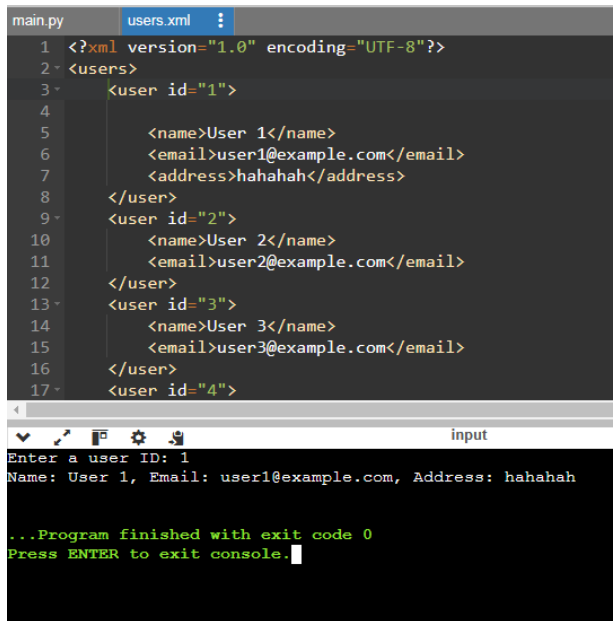


```
</user>
<user id="7">
  <name>User 7</name>
  <email>user7@example.com</email>
</user>
<user id="8">
  <name>User 8</name>
  <email>user8@example.com</email>
</user>
<user id="9">
  <name>User 9</name>
  <email>user9@example.com</email>
</user>
<user id="10">
  <name>User 10</name>
  <email>user10@example.com</email>
</user>
</users>
```

Read data

```
import xml.etree.ElementTree as ET
def get_user_details(user_id):
    tree = ET.parse('users.xml')
    root = tree.getroot()
    for user in root.findall('user'):
        if user.get('id') == user_id:
            name = user.find('name').text
            email = user.find('email').text
            address = user.find('address').text
            return f"Name: {name}, Email: {email}, Address: {address}"
    return "User not found"
user_id = input("Enter a user ID: ")
print(get_user_details(user_id))
```

Output:



```

main.py  users.xml  ⋮
1  <?xml version="1.0" encoding="UTF-8"?>
2  <users>
3      <user id="1">
4
5          <name>User 1</name>
6          <email>user1@example.com</email>
7          <address>hahahah</address>
8      </user>
9      <user id="2">
10         <name>User 2</name>
11         <email>user2@example.com</email>
12     </user>
13     <user id="3">
14         <name>User 3</name>
15         <email>user3@example.com</email>
16     </user>
17     <user id="4">

```

```

input
Enter a user ID: 1
Name: User 1, Email: user1@example.com, Address: hahahah

...Program finished with exit code 0
Press ENTER to exit console.

```

4 Write a PHP script to print prime numbers between 1-50.

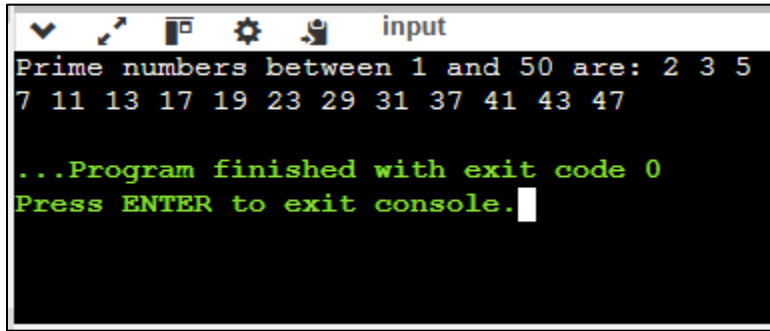
```

<?php
function isPrime($num) {
    if ($num <= 1) {
        return false;
    }
    for ($i = 2; $i <= sqrt($num); $i++) {
        if ($num % $i == 0) {
            return false;
        }
    }
    return true;
}

echo "Prime numbers between 1 and 50 are: ";
for ($i = 1; $i <= 50; $i++) {
    if (isPrime($i)) {
        echo $i . " ";
    }
}
?>

```

Output:



```
input
Prime numbers between 1 and 50 are: 2 3 5
7 11 13 17 19 23 29 31 37 41 43 47

...Program finished with exit code 0
Press ENTER to exit console.
```

- 5 **PHP script to**
- Find the length of a string.**
 - Count no of words in a string.**
 - Reverse a string.**
 - Search for a specific string.**

```
<?php
// Input string
$inputString = "Hello, this is a sample string for PHP string manipulation.";

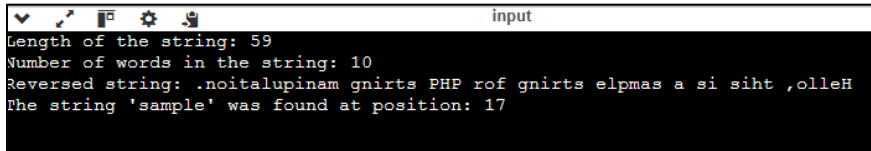
// a. Find the length of a string
$length = strlen($inputString);
echo "Length of the string: " . $length . "\n";

// b. Count the number of words in a string
$wordCount = str_word_count($inputString);
echo "Number of words in the string: " . $wordCount . "\n";

// c. Reverse a string
$reversedString = strrev($inputString);
echo "Reversed string: " . $reversedString . "\n";

// d. Search for a specific string
$searchString = "sample";
$position = strpos($inputString, $searchString);
if ($position !== false) {
    echo "The string '$searchString' was found at position: " . $position . "\n";
} else {
    echo "The string '$searchString' was not found.\n";
}
?>
```

Output:



```

input
length of the string: 59
Number of words in the string: 10
Reversed string: .noitalupinam gnirts PHP rof gnirts elpmas a si siht ,olleH
The string 'sample' was found at position: 17

```

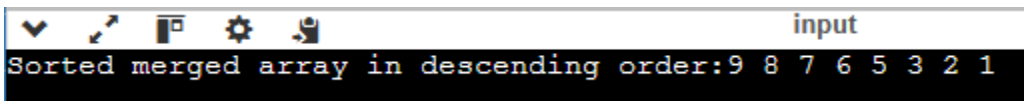
- 6 **Write a PHP script to merge two arrays and sort them as numbers, in descending order**

```

<?php
$arr1=array(5,9,3,7);
$arr2=array(2,8,1,6);
$merged=array_merge($arr1,$arr2);
rsort($merged);
echo"Sorted merged array in descending order:";
foreach($merged as $element){
    echo $element."";
}
?>

```

Output:



```

input
Sorted merged array in descending order:9 8 7 6 5 3 2 1

```

- 7 **Write a PHP script that reads data from one file and write into another file**

```

<?php
// Input file path
$inputFile = 'input.txt';

// Output file path
$outputFile = 'output.txt';

// Check if the input file exists
if (file_exists($inputFile)) {
    // Read the data from the input file
    $data = file_get_contents($inputFile);

    // Check if the data was read successfully
    if ($data !== false) {
        // Write the data to the output file
        $writeSuccess = file_put_contents($outputFile, $data);
    }
}

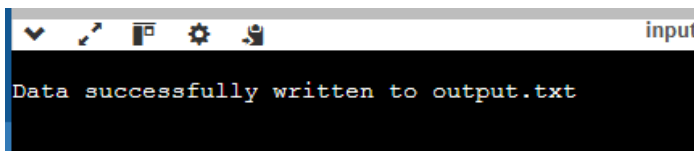
```

```

    if ($writeSuccess !== false) {
        echo "Data successfully written to $outputFile\n";
    } else {
        echo "Failed to write data to $outputFile\n";
    }
} else {
    echo "Failed to read data from $inputFile\n";
}
} else {
    echo "$inputFile does not exist\n";
}
?>

```

Output:



- 8 **Develop a Servlet to validate user name and password with the data stored in Servlet configuration file. Display authorized user if she/he is authorized else display Unauthorized user.**

Login.html

```

<html>
    <body>
        <center>
            <form name="Form1" method="post"
action="http://localhost:8080/UserValidation/LoginServlet">
                <table> <tr>
                    <td><B>Username</td> <td><input type=textBox
name="username" size="25" value=""></td>
                </tr> <tr>
                    <td><B>Password</td> <td><input type=textBox
name="password" size="25" value=""></td> </tr> </table>
                <input type=submit value="Login">
            </body>
        </html>

```

Web.xml

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
    http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
  version="3.0"
  metadata-complete="true">
  <servlet>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>LoginServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>LoginServlet</servlet-name>
    <url-pattern>/LoginServlet</url-pattern>
  </servlet-mapping>
</web-app>

```

LoginServlet.java

```

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class LoginServlet extends HttpServlet {
    private static final String DB_URL = "jdbc:mysql://localhost:3306/test";
    private static final String DB_USER = "root";
    private static final String DB_PASS = "root";

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        String username = request.getParameter("username");
        String password = request.getParameter("password");

```

```
try {
    Class.forName("com.mysql.jdbc.Driver").newInstance ();
    Connection conn = DriverManager.getConnection(DB_URL, DB_USER,
DB_PASS);
    PreparedStatement ps = conn.prepareStatement("SELECT * FROM users
WHERE username = ? AND password = ?");
    ps.setString(1, username);
    ps.setString(2, password);
    ResultSet rs = ps.executeQuery();

    if (rs.next()) {
        // Authorized user
        out.println("<h3>Welcome, " + username + "!</h3>");
        // Additional content or redirection to home page
    } else {
        // Unauthorized user
        out.println("<center><h3>Invalid username/password. Please try
again.</h3></center>");
        // Provide a way to retry (e.g., redirect back to login page)
    }

    rs.close();
    ps.close();
    conn.close();
} catch (Exception e) {
    out.println("Error: " + e.getMessage());
}
}
```

Output:

Username	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="Login"/>	

Welcome, Username

9 Write JSP Program to store student information sent from registration page into database table.

Index.html

```
<!DOCTYPE html>
<html>
<body>
<form method="post" action="process.jsp">
First name:<br>
<input type="text" name="first_name">
<br>
Last name:<br>
<input type="text" name="last_name">
<br>
City name:<br>
<input type="text" name="city_name">
<br>
Email Id:<br>
<input type="email" name="email">
<br><br>
<input type="submit" value="submit">
</form>
</body>
</html>
```

process.jsp

```
<% @ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"% >
<% @page import="java.sql.*,java.util.*"% >
<%
String first_name=request.getParameter("first_name");
String last_name=request.getParameter("last_name");
String city_name=request.getParameter("city_name");
String email=request.getParameter("email");
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root", "");
    Statement st=conn.createStatement();
```



```

        int i=st.executeUpdate("insert into
users(first_name,last_name,city_name,email)values('"+first_name+"','"+last_name+"','"+
city_name+"','"+email+"')");
        out.println("Data is successfully inserted!");
    }
    catch(Exception e)
    {
        System.out.print(e);
        e.printStackTrace();
    }
%>

```

Output:



- 10 Develop a program to validate username and password that are stored in Database table using JSP**

Login.jsp

```

<% @ page import="java.sql.*"%>
<% @ page import="java.util.*"%>
<%!
    Connection con;
    PreparedStatement ps1, ps2;
    public void jspInit()
    {
        try
        {

```

```
//loading the driver
Class.forName("oracle.jdbc.driver.OracleDriver");
//establish the connection
con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
"local", "test");
//create statement object
ps1 = con.prepareStatement("select count(*) from userlist where username = ? and
password=?");
ps2 = con.prepareStatement("select * from userlist");
}
catch(Exception ex)
{
    ex.printStackTrace();
}
}
%>
<%
String param = request.getParameter("s1");
if(param == "link")
{
    ResultSet rs = ps2.executeQuery();
    out.println("<table>");
    while(rs.next())
    {
        out.println("<tr>");
        out.println("<td>" + rs.getString(1) + "</td>");
        out.println("<td>" + rs.getString(2) + "</td>");
        out.println("</tr>");
    }
    out.println("</table>");
    rs.close();
}
else
{
    //write jdbc code for authentication
    String user = request.getParameter("uname");
    String pass = request.getParameter("pwd");
    //set form data as param value
    ps1.setString(1,user);
    ps1.setString(2,pass);
    //excute the query
    ResultSet rs = ps1.executeQuery();
    int cnt = 0;
```

```

        if (rs.next())
            cnt = rs.getInt(1);
        if(cnt == 0)
            out.println("<b><i><font color=red>Invalid credential</font></i></b>");
        else
        {
            out.println("<form><fieldset style= width:25%; >");
            out.println("<b><i><font color=red>valid credential..</font></i></b><br>");
            out.println("<b><i><font      size=6      color=blue>Welcome      to      My
Page</font></i></b>");
            out.println("</fieldset></form>");
        }
    }
%>
<%!
    public void jspDestroy()
    {
        try
        {
            //colse
            ps1.close();
            ps2.close();
            con.close();
        }
        catch(Exception ex)
        {
            ex.printStackTrace();
        }
    }
%>

```

Input.html

```

<!doctype html>
<html lang="en">
    <head>
        <title>Welcome </title>
    </head>
    <body>
        <form method = "post" action = "JspDB.jsp">
            <fieldset style="width:23%; background-color:#b3d1ff">
                <h3><center> Login Page</center></h3>
                <hr>
            </fieldset>
        </form>
    </body>
</html>

```

```

<table>
  <tr>
    <td>Username:</td>
    <td><input type = "text" name = "uname"></td>
  </tr>
  <tr>
    <td>Password:</td>
    <td><input type = "password" name = "pwd"></td>
  </tr>
  <tr>
    <td></td>
    <td><input type = "submit" value="check detail" name = "s1"></td>
  </tr>
</table>
</fieldset>
</form>
<a href="JspDB.jsp? s1=link">Get all user detail</a>
</body>
</html>

```

Web.xml

```

<web-app>
  <servlet>
    <servlet-name>xyz</servlet-name>
    <jsp-file>/input.html</jsp-file>
  </servlet>
  <servlet-mapping>
    <servlet-name>xyz</servlet-name>
    <url-pattern>/test</url-pattern>
  </servlet-mapping>
</web-app>

```

The screenshot shows a web page titled "Login Page" with a light blue background. It contains two input fields: "Username:" and "Password:". Below the password field is a button labeled "check detail". At the bottom of the page, there is a link that says "Get all user detail".

Welcome to my Page

11 Design an website for user profile using HTML and CSS

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Portfolio - P. Mohan Kumar</title>
    <link rel="stylesheet" href="style.css" />
    <link
      rel="stylesheet"
      type="text/css"
      href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css"
    />
  </head>
  <body>
    <div class="container">
      <div class="block" style="background-color: rgb(111, 110, 110)">
        
        <div class="img-text-wrap">
          <br /><br /><br /><br /><br /><br />
          <h2 style="color: white">P. Mohan Kumar</h2>
          <h3 class="nav-link" data-target="home">
            <i class="fas fa-home"></i> Home
          </h3>
          <h3 class="nav-link" data-target="about">
            <i class="fas fa-user"></i> About Me
          </h3>
          <h3 class="nav-link" data-target="whatido">
            <i class="fas fa-tasks"></i> What I Do
          </h3>
          <h3 class="nav-link" data-target="resume">
            <i class="fas fa-file-alt"></i> Resume
          </h3>
          <h3 class="nav-link" data-target="portfolio">
            <i class="fas fa-folder-open"></i> Portfolio
          </h3>
          <h3 class="nav-link" data-target="contact">
            <i class="fas fa-envelope"></i> Contact
          </h3>
        </div>
      </div>
    </div>
```

```

</div>
<div class="block" id="content">
  <div
    id="home"
    class="content-section"
    style="
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
    "
  >
    <!-- Content for Home section -->
    <h2
      style="
        color: white;
        font-size: 50px;
        margin-bottom: 10px;
        font-family: 'Poppins', sans-serif;
      "
    >
      Welcome
    </h2>
    <p
      style="
        color: white;
        font-size: 80px;
        margin-top: 0;
        font-family: 'Poppins', sans-serif;
      "
    >
      I'm
      <span
        class="txt-rotate"
        data-period="2000"
        data-rotate="[ 'Mohan Kumar.', 'Designer.', 'Developer.', 'YouTuber.']"
      ></span>
    </p>
  </div>
  <hr />
  <!-- Horizontal line after the Home section -->
  <div id="about" class="content-section">
    <!-- Content for About Me section -->

```

```

<p class="know-me-more">Know Me More</p>
<br /><br /><br /><br /><br /><br />
<div class="about-section">
  <div class="about-info">
    <div class="about-text">
      <p>
        I'm Mohan Kumar, a Computer Science and Engineering student.
        I'm highly motivated and skilled with a strong passion for
        coding and ethical hacking. Dedicated to developing innovative
        solutions and ensuring the highest levels of cybersecurity.
      </p>
      <p>
        Proficient in multiple programming languages such as Python,
        Java, C, and SQL. Experienced in conducting comprehensive
        network assessments to identify vulnerabilities.
      </p>
      <p>
        Committed to continuous learning and staying updated with the
        latest trends and techniques in the field of cybersecurity.
      </p>
    </div>
  </div>
</div>

<div class="personal-info">
  <p><strong>Name:</strong> P. Mohan Kumar</p>
  <p><strong>Email:</strong> pmohankumar50@gmail.com</p>
  <p><strong>Age:</strong> 20</p>
  <p><strong>From:</strong> Hyderabad, Telangana</p>
</div>
</div>
</div>

<div id="whatido" class="content-section">
  <!-- Content for What I Do section -->
  <h2 class="section-title">What I Do?</h2>
  <br /><br /><br /><br /><br /><br /><br /><br /><br />
  <div class="services-container">
    <div class="service-row">
      <div class="service-icon">
        <!-- Icon for Graphic Design -->
        <i class="fas fa-palette fa-3x" style="color: blue;"></i>
      </div>
      <div class="service-details">

```

```
<h3>Graphic Design</h3>
<p>
  Lisque persius interesset his et, in quot quidam persequeris
  vim, ad mea essent possim iriure.
</p>
</div>
</div>
<div class="service-row">
  <div class="service-icon">
    <!-- Icon for Web Design -->
    <i class="fas fa-desktop fa-3x"></i>
  </div>
  <div class="service-details">
    <h3>Web Design</h3>
    <p>
      Lisque persius interesset his et, in quot quidam persequeris
      vim, ad mea essent possim iriure.
    </p>
  </div>
</div>
<div class="service-row">
  <div class="service-icon">
    <!-- Icon for UI/UX Design -->
    <i class="fas fa-pencil-ruler fa-3x"></i>
  </div>
  <div class="service-details">
    <h3>UI/UX Design</h3>
    <p>
      Lisque persius interesset his et, in quot quidam persequeris
      vim, ad mea essent possim iriure.
    </p>
  </div>
</div>
<div class="service-row">
  <div class="service-icon">
    <!-- Icon for App Design & Development -->
    <i class="fas fa-paint-brush fa-3x"></i>
  </div>
  <div class="service-details">
    <h3>App Design & Development</h3>
    <p>
      Lisque persius interesset his et, in quot quidam persequeris
      vim, ad mea essent possim iriure.
```



```

    </p>
  </div>
</div>
<div class="service-row">
  <div class="service-icon">
    <!-- Icon for Business Analysis -->
    <i class="fas fa-chart-area fa-3x"></i>
  </div>
  <div class="service-details">
    <h3>Business Analysis</h3>
    <p>
      Lisque persius interesset his et, in quot quidam persequeris
      vim, ad mea essent possim iriure.
    </p>
  </div>
</div>
<div class="service-row">
  <div class="service-icon">
    <!-- Icon for SEO Marketing -->
    <i class="fas fa-bullhorn fa-3x"></i>
  </div>
  <div class="service-details">
    <h3>SEO Marketing</h3>
    <p>
      Lisque persius interesset his et, in quot quidam persequeris
      vim, ad mea essent possim iriure.
    </p>
  </div>
</div>
</div>
<div id="resume" class="content-section">
  <!-- Content for Resume section -->
  <div class="resume-container">
    <div id="education" class="content-section">
      <h2 class="education-heading">Education</h2>
      <div class="education-container">
        <div class="education btech">
          <h3 class="education-title">Bachelor Of Engineering</h3>
          <p class="education-details">
            Methodist College of Engineering & Technology
          </p>
          <p class="education-year">2021-2025</p>

```

```
<p class="education-major">
  Computer Science and Engineering
</p>
<p class="education-cgpa">CGPA: 8.9/10</p>
</div>
<div class="education intermediate">
  <h3 class="education-title">INTERMEDIATE(M.P.C)</h3>
  <p class="education-details">Narayana Junior College</p>
  <p class="education-year">2019-2021</p>
</div>
</div>
</div>

<div class="skills">
  <h2 class="resume-heading">My Skills</h2>
  <div class="skills-container">
    <div class="skill">
      <p class="skill-name">Web Design</p>
      <div class="skill-bar">
        <div class="skill-level" style="width: 65%"></div>
      </div>
    </div>
    <div class="skill">
      <p class="skill-name">HTML/CSS</p>
      <div class="skill-bar">
        <div class="skill-level" style="width: 95%"></div>
      </div>
    </div>
    <div class="skill">
      <p class="skill-name">JavaScript</p>
      <div class="skill-bar">
        <div class="skill-level" style="width: 80%"></div>
      </div>
    </div>
    <div class="skill">
      <p class="skill-name">React JS</p>
      <div class="skill-bar">
        <div class="skill-level" style="width: 70%"></div>
      </div>
    </div>
    <div class="skill">
      <p class="skill-name">Angular JS</p>
      <div class="skill-bar">
```

```

        <div class="skill-level" style="width: 60%"></div>
    </div>
</div>
<div class="skill">
    <p class="skill-name">Bootstrap</p>
    <div class="skill-bar">
        <div class="skill-level" style="width: 99%"></div>
    </div>
</div>
</div>
</div>
</div>
</div>

<div id="portfolio" class="content-section">
    <h2 class="section-title">Projects</h2>
    <br /><br /><br /><br /><br /><br /><br /><br />
    <div class="project-container">
        <div class="project">
            <h3 class="project-title">IoT Smart Parking System</h3>
            <p class="project-overview">
                Developed IoT-based system for urban parking optimization using
                Arduino microcontrollers and C/C++.
            </p>
        </div>
        <div class="project">
            <h3 class="project-title">
                Network Topology Analysis and Cybersecurity Assessment
            </h3>
            <p class="project-overview">
                Analyzed university network, identified vulnerabilities,
                proposed mitigation strategies using Cisco Packet Tracer.
            </p>
        </div>
        <div class="project">
            <h3 class="project-title">Tic Tac Toe Android Application</h3>
            <p class="project-overview">
                Designed and developed Java-based Tic Tac Toe game for Android
                with intuitive UI/UX and multiplayer mode.
            </p>
        </div>
        <div class="project">
            <h3 class="project-title">Symptom Checker Mobile Application</h3>

```

```
<p class="project-overview">
  Developed a mobile application that fetched symptom information
  from various online databases and APIs.
</p>
</div>
</div>
</div>

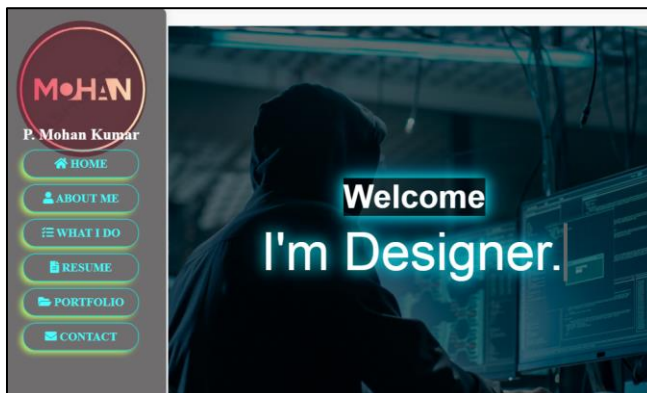
<div id="contact" class="content-section contact-section">
  <h2 class="contact-title">Get In Touch</h2>
  <p>SEND US A NOTE</p>
  <form class="contact-form">
    <div>
      <input
        type="text"
        id="name"
        name="name"
        placeholder="Your Name"
        class="input-field"
      />
    </div>
    <div>
      <input
        type="email"
        id="email"
        name="email"
        placeholder="Your Email"
        class="input-field"
      />
    </div>
    <div>
      <textarea
        id="message"
        name="message"
        placeholder="Tell us more about your needs..."
        class="textarea-field"
      ></textarea>
    </div>
    <div>
      <button type="submit" class="submit-btn">Submit</button>
    </div>
  </form>
  <div class="social-links">
```


```

<p>Follow Me:</p>
<a href="#" style="text-decoration: none"
  ><i class="fab fa-facebook"></i>
</a>
<a href="#" style="text-decoration: none"
  ><i class="fab fa-twitter"></i>
</a>
<a href="#" style="text-decoration: none"
  ><i class="fab fa-linkedin"></i>
</a>
<a href="#" style="text-decoration: none"
  ><i class="fab fa-instagram"></i>
</a>
</div>
</div>
</div>
</div>
<script src="script.js"></script>
</body>
</html>

```

Output:





P. Mohan Kumar


- HOME
- ABOUT ME
- WHAT I DO
- RESUME
- PORTFOLIO
- CONTACT

Know Me More

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P. Mohan Kumar

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What I Do?

Graphic Design




Lisque persius interesset his et, in quot quidam persequeris vim, ad mea essent possim iriure.

Web Design




Lisque persius interesset his et, in quot quidam persequeris vim, ad mea essent possim iriure.

UI/UX Design




Lisque persius interesset his et, in quot quidam persequeris vim, ad mea essent possim iriure.

App Design & Development



Lisque persius interesset his et, in quot quidam persequeris vim, ad mea essent possim iriure.



P. Mohan Kumar

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Projects

IoT Smart Parking System

Developed IoT-based system for urban parking optimization using Arduino microcontrollers and C/C++.

Network Topology Analysis and Cybersecurity Assessment


Analyzed university network, identified vulnerabilities, proposed mitigation strategies using Cisco Packet Tracer.

Tic Tac Toe Android Application

Designed and developed Java-based Tic Tac Toe game for Android with intuitive UI/UX and multiplayer mode.

Symptom Checker Mobile Application

Developed a mobile application that fetched symptom information from various online databases and APIs.



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Get In Touch





SEND US A NOTE

Your Name

Your Email

Tell us more about your needs...

Follow Me:

12 Write a JavaScript to implement a calculator

```
<html>
<body>
  <h1>Simple Calculator</h1>
  <input id="num1" type="number" value="0">
  <select id="operator">
    <option value="+">+</option>
    <option value="-">-</option>
    <option value="*">*</option>
    <option value="/">/</option>
  </select>
  <input id="num2" type="number" value="0">
  <button onclick="calculate()">=</button>
  <p id="result"></p>

  <script>
    function calculate() {
      var num1 = parseFloat(document.getElementById("num1").value);
      var operator = document.getElementById("operator").value;
      var num2 = parseFloat(document.getElementById("num2").value);
      var result;

      switch (operator) {
        case "+":
          result = num1 + num2;
          break;
        case "-":
          result = num1 - num2;
          break;
        case "*":
          result = num1 * num2;
          break;
        case "/":
          if (num2 === 0) {
            result = "Error: Division by zero!";
          } else {
            result = num1 / num2;
          }
          break;
      }
    }
  </script>
</body>
</html>
```

```
        document.getElementById("result").innerHTML = "Result: " + result;  
    }  
</script>  
</body>  
</html>
```

Output:

Simple Calculator

Simple Calculator

Result: 3