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Class: TY-IT-A

**WTACC Lab Assignment 4**

**Demonstrate the use of Javascrit function,different objects and event handling**

<!doctype html>

<html lang="en">

  <head>

    <!-- Required metx tags -->

    <metx charset="utf-8">

    <metx name="viewport" content="width=device-width, initial-scale=1">

    <!-- Bootstrap CSS -->

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-BmbxuPwQa2lc/FVzBcNJ7UAyJxM6wuqIj61tLrc4wSX0szH/Ev+nYRRuWlolflfl" crossorigin="anonymous">

    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@500&amp;display=swap" rel="stylesheet">

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

    <title>JavaScript Assignement</title>

  </head>

  <body>

    <nav class="navbar">

      <x class="navbar-brand" href="#">PF</a>

    </nav>

    <div class="jumbotron jumbotron-fluid">

      <div class="container">

        <!-- Prompts -->

        <h1 id="promptName"></h1>

        <script type="text/javascript">

          var name = prompt("Hey There, Enter Your Name: ");

          document.getElementById("promptName").innerHTML = "Hello " + name + " !!";

          function sayHello() {

            alert("Hello! " + name);

          }

          function getStringlength() {

            var string = document.getElementById("firstName").value;

            alert("length of string : " + string.length);

          }

        </script>

        <button type="button" class="btn btn-outline-secondary" onclick="sayHello()">Click Me!!</button>

        <div class="input-group my-2">

          <input type="text" class="form-control" id="firstName" name="firstName" placeholder="Enter x String" aria-describedby="basic-addon2">

          <div class="input-group-append">

            <button class="btn btn-outline-primary" onclick="getStringlength()" type="button">Submit</button>

          </div>

        </div>

        <!-- Array Operations -->

        <h1 class="mt-5 ml-2">Array Operations</h1>

        <p class="lead">Initial Array  : <span id="init1"></span></p>

        <p class="lead">Push Operation : <span id="init1push"></span></p>

        <p class="lead">Pop Operation  : <span id="init1pop"></span></p>

        <p class="lead">Second Array   : <span id="init2"></span></p>

        <p class="lead">Array Joining  : <span id="join"></span></p>

        <script type="text/javascript">

          var arr1 = ["Tokyo", 90, false, 3.99];

          document.getElementById("init1").innerHTML = arr1;

          arr1.push("Akash");

          document.getElementById("init1push").innerHTML = arr1;

          arr1.pop();

          document.getElementById("init1pop").innerHTML = arr1;

          var arr2 = ["New York", "Chicago", "Los Angeles", "Washingtion"];

          document.getElementById("init2").innerHTML = arr2;

          document.getElementById("join").innerHTML = arr1.join(" # ");

        </script>

        <script type="text/javascript">

          var studentinfo = new Object();

          studentinfo.name = "Akash Dhadiwal";

          studentinfo.dept = "Information technology";

          studentinfo.year = "Third year";

          function Aka(roll,subject) {

              this.roll= roll;

              this.subject= subject;

          }

        </script>

        <h1 class="mt-5">Assignment Operators</h1>

        <table class="table table-dark">

          <thead>

            <tr>

              <th scope="col">Operator</th>

              <th scope="col">Example</th>

            </tr>

          </thead>

          <tbody>

            <script type="text/javascript">

              document.write("<tr><td>==</td><td>10 == 20 = " + (10 == 20) + "</td></tr>");

              document.write("<tr><td>===</td><td>10 === \"10\" = " + (10 === "10") + "</td></tr>");

              document.write("<tr><td>!=</td><td>10 != 10 = " + (10 != 10) + "</td></tr>");

              document.write("<tr><td>!==</td><td>10 !== \"10\" = " + (10 !== "10") + "</td></tr>");

            </script>

          </tbody>

        </table>

        <h1 class="mt-5">Variables</h1>

        <script language="javascript" type="text/javascript">

          var x = 10;

          document.write("Value is "+x+"<br>" );

          var x = 22.5;

          document.write("Value is "+x+"<br>" );

          var x = "VIT Pune";

          document.write("Value is "+x+"<br>" );

          document.write("Value is "+ (200<890)+"<br>");

          var x = 30;

          var y = 17;

          var z = 19;

          document.write("<br>"+"x = " + x + ", y = " + y +", z = " + z + "<br>");

        </script>

        <h1 class="mt-5">Arithmatiz Operators</h1>

        <table class="table table-dark">

          <thead>

            <tr>

              <th scope="col">Operator</th>

              <th scope="col">Example</th>

            </tr>

          </thead>

          <tbody>

            <script type="text/javascript">

              document.write("<tr><td>+</td><td>10 + 20 = " + (10 + 20) + "</td></tr>");

              document.write("<tr><td>-</td><td>10 - 10 = " + (10 - 10) + "</td></tr>");

              document.write("<tr><td>\*</td><td>10 \* 10 = " + (10 \* 10) + "</td></tr>");

              document.write("<tr><td>/</td><td>10 / 3 = " + (10 / 3) + "</td></tr>");

              document.write("<tr><td>%</td><td>10 % 3 = " + (10 % 3) + "</td></tr>");

            </script>

          </tbody>

        </table>

        <h1 class="mt-5">JavaScript Loops</h1>

        <script language="javascript" type="text/javascript">

          document.write("<br>If-else Loop : ");

          if((x > y) && (x > z)) {

            document.write("x is greater");

          } else if((y > z) && (y > x)) {

            document.write("y is greater");

          } else {

            document.write("z is greater")

          }

          var x = 1;

          document.write("<br>Powers of 2 using While loop : ")

          while(x <= 20) {

            x = x \* 2;

            document.write(" " + x + " ");

          }

          document.write("<br><br>");

          document.write("Student name is : "+studentinfo.name+ "<br>");

          document.write("Student dept is : "+studentinfo.dept+ "<br>");

          document.write("Current year of study : "+studentinfo.year+ "<br>");

          var student = new student("14","Wey technology");

          document.write("Roll no is : "+student.roll+ "<br>");

          document.write("Subject is : "+student.subject+ "<br>");

          var subjects=["Web\_Technology","Software\_development","IOT","OOPs"];

          document.write("<br>Total subjects are: <br>");

          for (i = 0; i < subjects.length; i++) {

            document.write((i+1)+". "+subjects[i]+"<br>");

          }

        </script>

        <h1 class="mt-5">Event Handling</h1>

        <input type="button" class="btn btn-outline-danger w-100 mb-3" onclick="clickevent()" value="You Will prompt to new window!! with the help of clickevent "/>

        <input type="button" class="btn btn-outline-danger w-100" onmouseover="mouseoverEvent()" value="hey this is mouseover event  "/>

        <div class="form-group mt-2">

          <label>onFocus : </label>

          <input type="text" id="input1" class="form-control mb-2" onfocus="focusEvent(this)"/>

        </div>

        <div class="form-group">

          <label>onKeyDown : </label>

          <input type="text" id="input2" class="form-control" onkeydown="keydownevent()"/>

        </div>

        <script language="Javascript" type="text/Javascript">

          function clickevent() {

              document.write("This is Assignment, You Will prompt to new window! with the help of clickevent");

          }

          function mouseoverEvent() {

            alert("This is mouse over event ");

          }

          function focusEvent(x) {

            x.style.background = "#999999";

          }

          function keydownevent() {

            document.getElementById("input2");

            alert("Pressed a key");

          }

        </script>

      </div>

    </div>

    <!-- Bootstrap Bundle with Popper -->

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/js/bootstrap.bundle.min.js" integrity="sha384-b5kHyXgcpbZJO/tY9Ul7kGkf1S0CWuKcCD38l8YkeH8z8QjE0GmW1gYU5S9FOnJ0" crossorigin="anonymous"></script>

  </body>

</html

