Government of Karnataka
Department of Collegiate Education

Dr. P. DAYANANDA PAI – P. SATHISHA PAI
GOVERNMENT FIRST GRADE COLLEGE CARSTREET MANGALORE

LABORATORY CERTIFICATE

This is to certify that Mr. JAGADISH.S has satisfactorily completed the practical works in COMPUTER MULTIMEDIA & ANIMATION LAB prescribed by the Mangalore University for FOURTH SEMESTER BCA course, in the laboratory of this college during the year 2023-2024.

_____ _____

Lecturer in charge **Head of the Department**

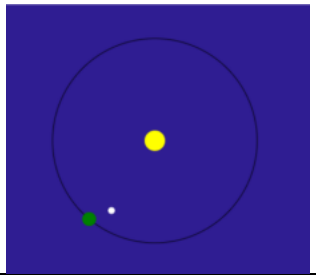
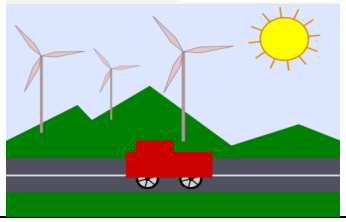
Name of the Candidate : JAGADISH.S
Registration Number : U05DP22S0083
Examination Centre : Dr. PDP-PSP GFGC MANGALORE
Date of Examination : .....

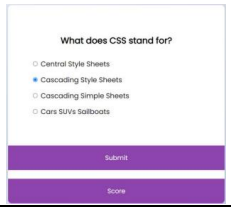
EXAMINERS:

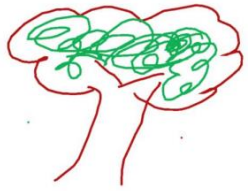
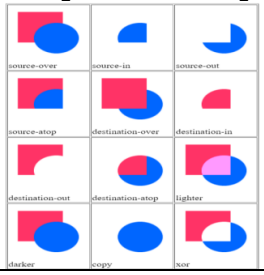
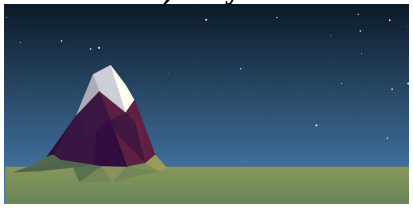
_____ _____

INTERNAL **EXTERNAL**

INDEX

<table>
<tr><td></td><td>  </td><td></td></tr>
<tr><td>5.</td><td>Create a web page to model solar system using canvas element animation, where it contains sun, earth and moon (all must be created using canvas shapes not images). Earth should revolve around sun and moon should revolve around earth simultaneously. Sample screen shot below:
  </td><td>20-21</td></tr>
<tr><td>6.</td><td>Create the following drawing in html page using only SVG
  </td><td>22-23</td></tr>
<tr><td>7.</td><td>Create the following drawing using SVG
  </td><td>24-25</td></tr>
<tr><td>8.</td><td>Create a web page using HTML and CSS to create a timetable as follows:
COLLEGE TIME TABLE
<table>
<tr><th></th><th>8:30-9:30</th><th>9:30-10:30</th><th>10:30-11:30</th><th>11:30-12:30</th><th>12:30-2:00</th><th>2:00-3:00</th><th>3:00-4:00</th><th>4:00-5:00</th></tr>
<tr><td>MONDAY</td><td>---</td><td>SUB1</td><td>SUB2</td><td>SUB3</td><td rowspan="7">LUNCH</td><td>SUB4</td><td>SUB5</td><td>COUNSELLING CLASS</td></tr>
<tr><td>TUESDAY</td><td>SUB1</td><td>SUB2</td><td>SUB3</td><td>---</td><td>SUB2</td><td>SUB2</td><td>LIBRARY</td></tr>
<tr><td>WEDNESDAY</td><td>SUB1</td><td>SUB2</td><td>SWA</td><td>---</td><td colspan="3">LAB</td></tr>
<tr><td>THURSDAY</td><td>SUB1</td><td>SUB2</td><td>SUB3</td><td>---</td><td>SUB2</td><td>SUB2</td><td>LIBRARY</td></tr>
<tr><td>FRIDAY</td><td>SUB1</td><td>SUB2</td><td>SUB3</td><td>---</td><td>SUB4</td><td>SUB5</td><td>LIBRARY</td></tr>
<tr><td>SATURDAY</td><td>SUB1</td><td colspan="3">SEMINAR</td><td>SUB4</td><td>SUB5</td><td>LIBRARY</td></tr>
</table></td><td>26-29</td></tr>
</table>

SL NO.	PART-B	PAGE NO.
1.	**Create a web page using HTML5 canvas element to show a clock which changes time for every second, minute and hours (as that of an analog clock). Clock should have second, minute and hour needles and minute marking must be there (as shown in screen shot).** 	31-33
2.	**Create a web page containing simple calculator which should have basic arithmetic (+,-,*,/) operation on two floating point numbers and show result. Validations to be followed:** **• . (Decimal point) should be taken only once for an operand.** **• Operand can be negative.** **• Division by zero must be shown proper error message in result. Sample screen shot:** 	34-36
3.	**Create a HTML page make a quiz game where user should answer one question at a time, answers must be shown in radio buttons. Without submitting the answer, quiz should not move to next question (Minimum five questions must be there). When user wishes to get score (using score button) score should be displayed in alert 22 message. All the question must be loaded in same page (no page navigation is allowed) Sample screen shot:** 	37-41
4.	**Create a web page using HTML/CSS which contains cards (shown as a stack of cards) with image of a tourist place and below that is a thumbnail (shown in circle with image). When mouse hovers over thumbnail, corresponding card comes in front and also small description about the tourist place will be displayed. All these must happen using css animation and transition.** **Initial interface:**  **Interface should look like below screenshot when mouse hovered on thumbnail:**	42-45

	 **(Java script should not be used to animate.)**	
5.	**Create a web page using HTML5/CSS3 to animate a truck movement. While truck moves on mountains and trees should move in the back ground.Output screen shot:**  **For tree, truck and wheels download the images from the following URLs.** **https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/tree.svg** **https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/truck.svg** **https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/wheels.svg** **Animation must be pure**	**46-48**
6.	**Create a simple paint app which draws lines based on the selected colour (chosen using color input) with selected thickness (chosen using number input) and there must be CLEAR button to clear the canvas. Sample screen shot:** 	**49-50**
7.	**Create web page using HTML5 canvas element to illustrate all canvas composition. Output must exactly look like the following screenshot:** 	**51-53**
8.	**Create a web page which must be as shown in below image using HTML5, SVG and CSS3. Here mountain must be drawn using SVG, stars in sky changes their position randomly for every time page is loaded (java script can be used). Sky and stars must be created using <canvas> element.**  **Note: Online (live access) CSS files must be used.**	**54-56**

PART-A

/* ******** */**

AIM : Create a home page for a college website containing all latest HTML5 tags like <article>,<aside>,<nav>,<footer>,<section,<figure>.And in it must have hyper links for courses, facilities and contact details. While clicking on each of these hyper links it should take us to corresponding page where in course page courses must be displayed in an ordered list, and in facilities page it should be displayed in an unordered list, contact details page must give phone number, email and address in separate columns with respective headings.

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 29/2/2024

/* ******** */**

College.html

```
<!DOCTYPE html>
<head>
  <figure>
    <img align="left"src=" "width="150"hieght="150">
  </figure>
  <h1 style="color:orange">GFGC CARSTREET</h1>
  <PRE>approved by govt of karnataka afiliated to mangalore university</PRE>
  <hr>
  <marquee direction="left"bgcolor="pink"style="font-size:20pt;">
  <b>WELCOME TO GFGC CARSTREET</b>
</marquee>
</head>
<body>
  <header>
    <nav>
      <center>
        <div style="display:flex">
          <div style="flex:1">
        <h3><a href="courses.html">courses</a></h3>
      </div>
        <div style="flex:1">
        <h3><a href="facilities.html">facilities</a></h3>
      </div>
      <div style="flex:1">
      <h3><a href="contact.html">contact us</a></h3>
    </div>
  </div>
        </center>
    </nav>
  </header>
  <br><br><br>
  <section>
    <h1><center>ABOUT US</center></h1>
```

```
        <h1><center>vision</center></h1>
        <pre><center>GFGC CARSTREET education trust has established in this field with
an outstanding reputation for providing the best in academic pursuits.the trust whose focus
has been on providing professional training for a variety of vocations stands proud with a
heritage of excellence and experience in the field of education
            </center></pre>
            <h1><center>mission</center></h1>
            <pre><center>our mission is to education and transform the student community by
instiling in them pride in their talents naturing them and guiding them in how best to utilise it
for human welfare and progress </center></pre>
      </section>
      <br><br><br>
      <footer>
        <p>and copy:2023 GFGC CARSTREET ALL RIGHT reserved</p>
      </footer>
   </body>
   </html>
```

Courses.html

```
<html>
   <figure>
      <img align="left"src=" "width="150"height="150">
   </figure>
   <h1 style="color:orange">GFGC CARSTREET</h1>
   <PRE>approved by govt of karnataka afiliated to mangalore university</PRE>
      <hr>
      <marquee directon="left"bgcolor="pink"style="font-size:20pt">
        <b>WELCOME TO GFGC CARSTREET</b></marquee>
      </head>
      <body>
        <h2 id="courses">our courses</h2>
        <p>We offer a variety of undergraduate programs in the following fields</p>
        <ol>
          <li>Bachelor of Computer Application(BCA)</li>
          <li>Bachelor of Business Administration(BBA)</li>
          <li>Bachelor of Science(B.Sc)</li>
        </ol>
      </body>
      </html>
```

facilities.html

```
<html>
   <head>
      <figure>
        <img align="left"src=""width="150"height="150">
      </figure>
```

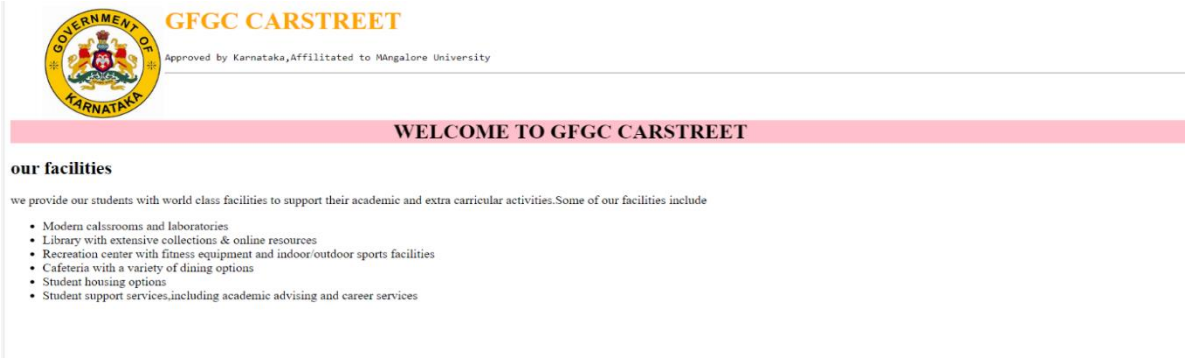
```
      <h1 style="color:orange">GFGC CARSTREET</h1>
      <pre>Approved by Karnataka,Affilitated to MAngalore University</pre>
      <hr>
      <marquee direction="left"bgcolor="pink"style="font-size:20pt">
      <b>WELCOME TO GFGC CARSTREET</b></marquee>
   </head>
   <body>
      <aside>
         <h2 id="facilities">our facilities</h2>
         <p>we provide our students with world class facilities to support their academic and
extra carricular activities.Some of our facilities include</p><ul>
            <li>Modern calssrooms and laboratories</li>
            <li>Library with extensive collections & online resources</li>
            <li>Recreation center with fitness equipment and indoor/outdoor sports
facilities</li>
            <li>Cafeteria with a variety of dining options</li>
            <li>Student housing options</li>
            <li>Student support services,including academic advising and career services</li>
         </ul>
      </aside>
   </body>
   </html>
```

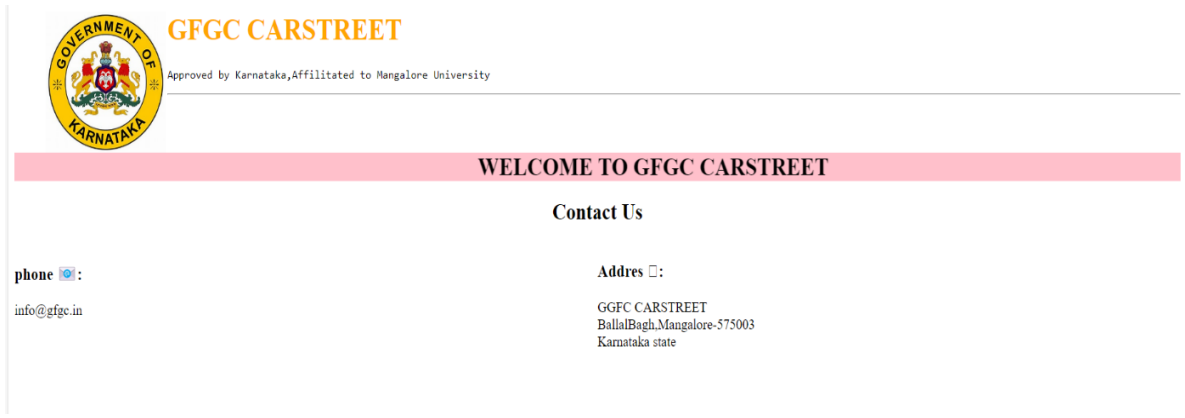
Contact.html

```
<html>
   <head>
      <figure>
         <img align="left"src=""width="150"height="150">
      </figure>
      <h1 style="color:orange">GFGC CARSTREET</h1>
      <pre>Approved by Karnataka,Affilitated to Mangalore University</pre>
      <hr>
      <marquee direction="left"bgcolor="pink"style="font-size:20pt">
      <b>WELCOME TO GFGC CARSTREET</b></marquee>
   </head>
   <body>
      <h2 id="contact"><center>Contact Us</center></h2>
      <div style="Display:flex">
         <div style="flex:1">
         <h3>phone &#128231:</h3>
         <p>info@gfgc.in</p>
         </div>
         <div style="flex:1">
         <h3>Addres &#xe567:</h3>
         <p>GGFC CARSTREET</br>
            BallalBagh,Mangalore-575003</br>
```

```
        Karnataka state</p>
    </div>
    </div>
    </body>
    </html>
```

OUTPUT:





/* ********** */

AIM : Design a HTML5 web page containing form with text, password, number, range, email, url, file, submit and reset elements which must be styled using CSS3.

Note that:

• Apply the style exactly same as shown in the above screen shot (with border radius, box shadow and colours).

• Submit and Reset buttons must change their colour on mouse hovering.

• Name and passwords should not be empty. If empty, provide error message when submit is clicked .

• When clicked on submit button email, Profile URLs must be validated for proper input.

• Contact number must contain only 10 digits not lesser and not more.

• Clicking on Reset button must clear all fields' entry.

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 7/3/2024

/* ********** */

```
<!DOCTYPE html>
<html>
<head>
   <style>
      form {
         width: fit-content;
         margin: 0px auto;
         font-family: sans-serif;
         background-color: silver;
         box-shadow: rgba(0, 0, 0, 0.8) 0 0 10px;
         border: 1px solid grey;
         border-radius: 10px;
         padding: 20px;
      }
      .button:hover {
         background-color: green;
         cursor: pointer;
      }
   </style>
</head>
<body>
   <h1 style="text-align:center;color:green">REGISTRATION FORM</h1>
   <form action="outputpage.html" method="post">
      <p>
         name:<br>
         <input type="text" size="65" name="name" required placeholder="Enter your
name">
```

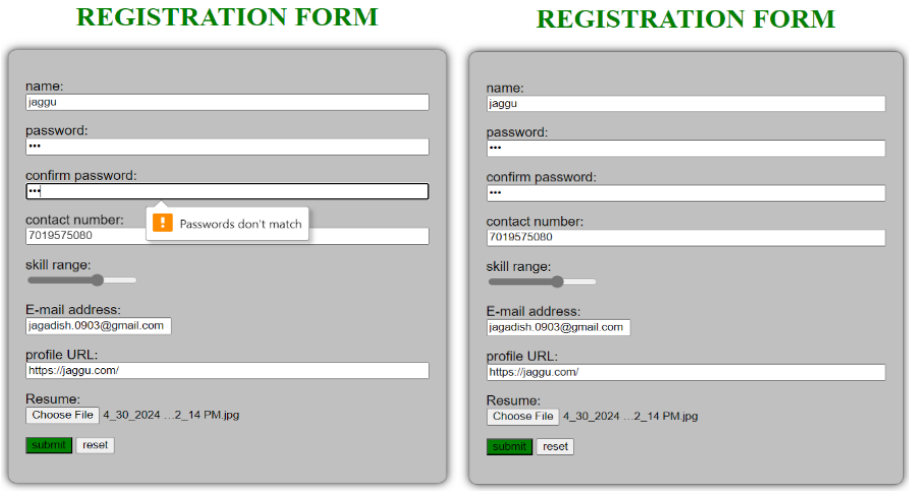
```
        </p>
        <p>
            password:<br>
            <input type="password" size="65" id="password" name="password" required
placeholder="Enter your password"/>
        </p>
        <P>
            confirm password:<br>
            <input type="password" size="65" id="confirm_password"
name="confirm_password" required placeholder="Confirm password"/>
        </P>
        <p>
            contact number:<br>
            <input type="tel" size="65" name="contact number" pattern="[0-9]{10}" required
placeholder="Enter a number"/>
        </p>
        <p>
            skill range:<br>
            <input type="range" name="skill range" width="100px" required/>
        </p>
        <p>
            E-mail address:<br>
            <input type="email" name="email" required placeholder="Enter your email"/>
        </p>
        <p>
            profile URL:<br>
            <input type="url" size="65" name="profile" required placeholder="Enter URL"/>
        </p>
        <p>
            Resume:<br>
            <input type="file" size="65" id="resume" name="resume" required>
        </p>
        <p>
            <input type="submit" class="button" value="submit" name="submit"/>
            <input type="reset" class="button" value="reset" name="reset"/>
        </p>
    </form>
    <script>
        var password = document.getElementById("password");
        var confirm_password = document.getElementById("confirm_password");
        function validatePassword() {
            if(password.value != confirm_password.value) {
                confirm_password.setCustomValidity("Passwords don't match");
            } else {
                confirm_password.setCustomValidity('');
            }
```

```
        }
        password.onchange = validatePassword;
        confirm_password.onkeyup = validatePassword;
    </script>
</body>
</html>
```

Outputpage.html

```
<!DOCTYPE html>
<html>
    <body>
        <h1 style="color:rgb(3,77,3)"><center>YOUR REGISTRATION IS
SUCESFULL</center>
            <h3 style="color:rgb(4,19,89)"><center>THANK YOU</center></h3>
        </body>
</html>
```

OUTPUT:



YOUR REGISTRATION IS SUCESFULL

THANK YOU

/* ** */

AIM : Create an HTML5 web page which shows a smiling face initially. On every click of 'Toggle Face' button display should toggle between smiling face and sad face. Note: Use only one button. And faces should be drawn using canvas element.

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 14/3/2024

/* ** */

```
<!DOCTYPE html>
<html>
<head>
   <title>Toggle Face</title>
   <style>
      #canvas-container {
         border: 2px solid black;
         width: 200px;
         height: 200px;
         display: flex;
         justify-content: center;
         align-items: center;
         border-radius: 20px;
         background-color: blue;
         margin-bottom: 10px;
      }
   </style>
</head>
<body>
   <div id="canvas-container">
      <canvas id="faceCanvas" width="150" height="150"></canvas>
   </div>
   <button onclick="toggleFace()">Toggle Face</button>
   <script>
      var canvas = document.getElementById("faceCanvas");
      var ctx = canvas.getContext("2d");
      var isSmiling = true;

      function drawSmile() {
         ctx.beginPath();
         ctx.moveTo(40, 100);
         ctx.quadraticCurveTo(75, 155, 110, 100);
         ctx.strokeStyle = "#000";
         ctx.lineWidth = 4;
         ctx.stroke();
      }
```

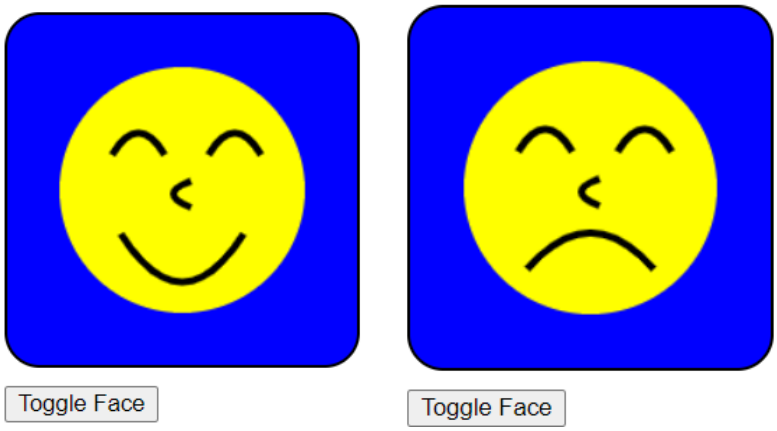
```
function drawFace() {
   ctx.clearRect(0, 0, canvas.width, canvas.height);
   ctx.beginPath();
   ctx.arc(75, 75, 70, 0, Math.PI * 2);
   ctx.fillStyle = "yellow";
   ctx.fill();
   ctx.beginPath();
   ctx.moveTo(35, 55);
   ctx.quadraticCurveTo(50, 30, 65, 55);
   ctx.strokeStyle = "#000";
   ctx.lineWidth = 4;
   ctx.stroke();
   ctx.beginPath();
   ctx.moveTo(90, 55);
   ctx.quadraticCurveTo(105, 30, 120, 55);
   ctx.strokeStyle = "#000";
   ctx.lineWidth = 4;
   ctx.stroke();
   ctx.beginPath();
   ctx.moveTo(80, 70);
   ctx.quadraticCurveTo(60, 77, 80, 85);
   ctx.strokeStyle = "#000";
   ctx.lineWidth = 4;
   ctx.stroke();
}

function drawSad() {
   ctx.beginPath();
   ctx.moveTo(40, 120);
   ctx.quadraticCurveTo(75, 80, 110, 120);
   ctx.strokeStyle = "#000";
   ctx.lineWidth = 4;
   ctx.stroke();
}

function toggleFace() {
   if (isSmiling) {
      drawFace();
      drawSad();
      isSmiling = false;
   } else {
      drawFace();
      drawSmile();
      isSmiling = true;
   }
}
```

```
        drawFace();
        drawSmile();
    </script>
</body>
</html>
```

OUTPUT:



/* ******** */**

AIM : Design a mock login page and style it using CSS3.
NAME : JAGADISH.S.S
REG NO : U05DP22S0083
DATE : 7/3/2024

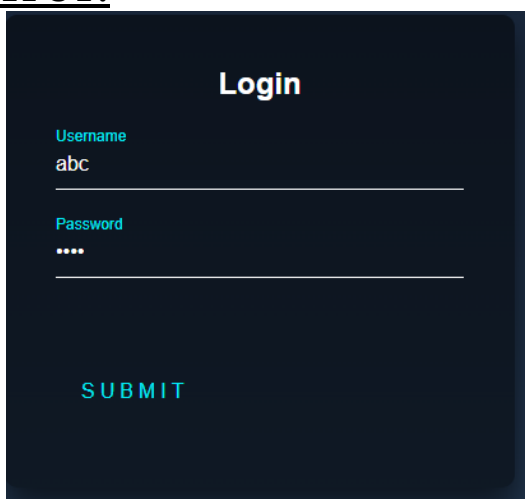
/* ******** */**

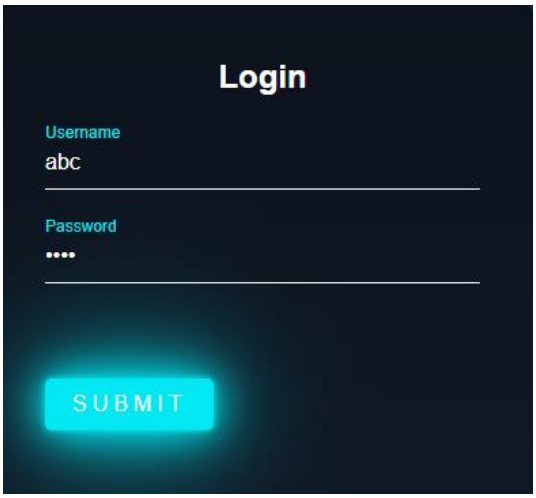
```
<html>
 <head>
  <title>Login Page</title>
  <style>
   body {
    font-family: sans-serif;
    background: linear-gradient(#141e30, #243b55);
   }
   .login-box {
    position: absolute;
    top: 50%;
    left: 50%;
    width: 400px;
    padding: 40px;
    transform: translate(-50%, -50%);
    background: rgba(0, 0, 0, 0.5);
    box-sizing: border-box;
    box-shadow: 0 15px 25px rgba(0, 0, 0, 0.6);
    border-radius: 10px;
   }
   .login-box h2 {
    margin: 0 0 30px;
    padding: 0;
    color: #fff;
    text-align: center;
   }
   .login-box .user-box {
    position: relative;
   }
   .login-box .user-box input {
    width: 100%;
    padding: 10px 0;
    font-size: 16px;
    color: #fff;
    margin-bottom: 30px;
    border: none;
    border-bottom: 1px solid #fff;
    outline: none;
    background: transparent;
   }
```

```
    .login-box .user-box label {
      position: absolute;
      top: 0;
      left: 0;
      padding: 10px 0;
      font-size: 16px;
      color: #fff;
    }
    .login-box .user-box input:focus ~ label,
    .login-box .user-box input:valid ~ label {
      top: -20px;
      left: 0;
      color: #03e9f4;
      font-size: 12px;
    }
    .login-box form a {
      position: relative;
      display: inline-block;
      padding: 10px 20px;
      color: #03e9f4;
      font-size: 16px;
      text-decoration: none;
      margin-top: 40px;
      letter-spacing: 4px;
    }
    .login-box a:hover {
      background: #03e9f4;
      color: #fff;
      border-radius: 5px;
      box-shadow: 0 0 5px #03e9f4, 0 0 25px #03e9f4, 0 0 50px #03e9f4,
        0 0 100px #03e9f4;
    }
  </style>
 </head>
 <body>
  <div class="login-box">
   <h2>Login</h2>
   <form>
    <div class="user-box">
     <input type="text" name="" required="" />
     <label>Username</label>
    </div>
    <div class="user-box">
     <input type="password" name="" required="" />
     <label>Password</label>
    </div>
```

```
        <a href="#"> SUBMIT </a>
      </form>
    </div>
  </body>
</html>
```

OUTPUT:





/* ** */

AIM : Create a web page to model solar system using canvas element animation, where it contains sun, earth and moon (all must be created using canvas shapes not images). Earth should revolve around sun and moon should revolve around earthsimultaneously

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

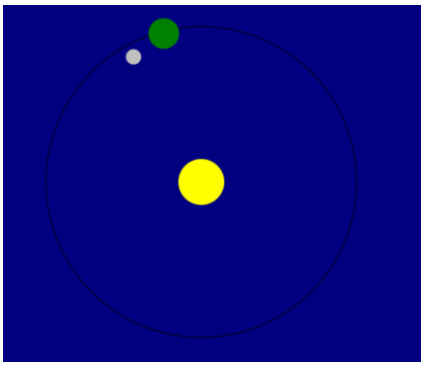
DATE : 7/3/2024

/* ** */

```
<!DOCTYPE html>
<html>
  <head>
    <title>Solar System Animation</title>
    <style>
      canvas {
        border: 2px solid black;
        background-color: navy;
      }
    </style>
  </head>
  <body>
    <canvas id="canvas" width="600" height="600"></canvas>
    <script>
      const canvas = document.getElementById("canvas");
      const ctx = canvas.getContext("2d");
      const sun = {
        x: canvas.width / 2,
        y: canvas.height / 2,
        radius: 50,
        color: "yellow",
      };
      const earth = {
        x: sun.x + 200,
        y: sun.y,
        radius: 20,
        color: "green",
        angle: 0,
        speed: 0.005,
      };
      const moon = {
        x: earth.x + 50,
        y: earth.y,
        radius: 10,
        color: "silver",
        angle: 0,
        speed: 0.045,
```

```
    };
    function draw() {
      ctx.clearRect(0, 0, canvas.width, canvas.height);
      ctx.beginPath();
      ctx.arc(sun.x, sun.y, 203, 0, Math.PI * 2, false);
      ctx.stroke();
      ctx.beginPath();
      ctx.arc(sun.x, sun.y, 30, 0, Math.PI * 2);
      ctx.fillStyle = sun.color;
      ctx.fill();
      ctx.beginPath();
      ctx.arc(earth.x, earth.y, earth.radius, 0, Math.PI * 2);
      ctx.fillStyle = earth.color;
      ctx.fill();
      ctx.beginPath();
      ctx.arc(moon.x, moon.y, moon.radius, 0, Math.PI * 2);
      ctx.fillStyle = moon.color;
      ctx.fill();
      earth.x = sun.x + 200 * Math.cos(earth.angle);
      earth.y = sun.y + 200 * Math.sin(earth.angle);
      earth.angle += earth.speed;
      moon.x = earth.x + 50 * Math.cos(moon.angle);
      moon.y = earth.y + 50 * Math.sin(moon.angle);
      moon.angle += moon.speed;
      requestAnimationFrame(draw);
    }
    draw();
  </script>
 </body>
</html>
```

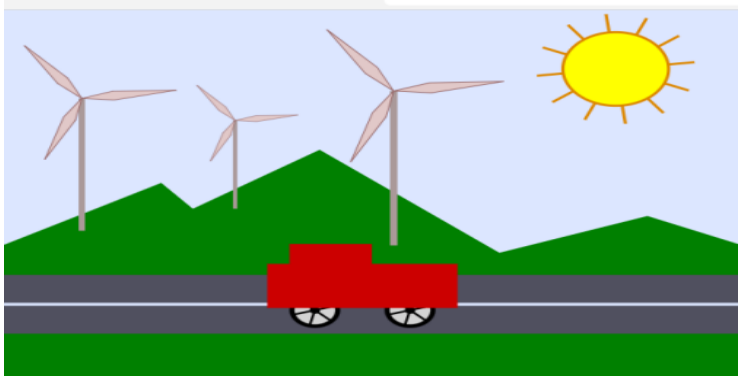
OUTPUT:



```
/* ********************************************************************************** */
AIM      : Create the following drawing in html page using only SVG
NAME     : JAGADISH.S.S
REG NO : U05DP22S0083
DATE     : 14/3/2024
/* ********************************************************************************** */
<svg version="1.1" Width="14cm" height="10cm" viewBox="0 0 7 5">
  <defs>
    <g id="wheel" transform="rotate(0)">
      <animateTransform attributeName="transform" attributeType="XML" type="rotate"
from="360" to="0" dur="3s" Fill="remove" repeatCount="indefinite"/>
      <circle cx="0" cy="0" r="1" fill="black" />
      <circle cx="0" cy="0" r="0.8" fill="lightGray" />
      <rect x="-0.9" y="-0.05" width="1.8" height=".1" fill="black" />
      <rect x="-0.9" y="-0.05" width="1.8" height=".1" fill="black"
transform="rotate(120)" />
      <rect x="-0.9" y="-0.05" width="1.8" height=".1" fill="black"
transform="rotate(240)" />
      <circle cx="0" cy="0" r="0.2" fill="black" />
    </g>
    <g id="cart" transform="translate(2.5,0)">
      <animateTransform attributeName="transform" attributeType="XML"
type="translate" from="-3,-0.05" to="11,-0.05" dur="15s" Fill="remove"
repeatCount="indefinite"/>
      <g transform="scale(0.3,0.3)">
        <use xlink:href="#wheel" transform="translate(-1.5,-0.1) scale(0.8,0.8)" />
        <use xlink:href="#wheel" transform="translate(1.5,-0.1) scale(0.8,0.8)" />
        <rect x="-3" y="0" width="6" height="2" fill="#ff4500 " />
        <rect x="-1.1" y="1.9" width="2.6" height="1.5" fill="#ff4500 " />
      </g>
    </g>
    <g id="sun" fill="yellow" stroke="#DD8800" stroke-width="0.03"
transform="rotate(0)">
      <animateTransform attributeName="transform" attributeType="XML" type="rotate"
from="0" to="360" dur="30s" fill="remove" repeatCount="indefinite"/>
      <line x1="-0.75" y1="0" x2="0.75" y2="0" />
      <line x1="-0.75" y1="0" x2="0.75" y2="0" transform="rotate(30)" />
      <line x1="-0.75" y1="0" x2="0.75" y2="0" transform="rotate(60)" />
      <line x1="-0.75" y1="0" x2="0.75" y2="0" transform="rotate(90)" />
      <line x1="-0.75" y1="0" x2="0.75" y2="0" transform="rotate(120)" />
      <line x1="-0.75" y1="0" x2="0.75" y2="0" transform="rotate(150)" />
      <circle cx="0" cy="0" r="0.5" />
    </g>
    <polygon id="vane" points="0,0 0.5,0.1 1.5,00.5,-0.1" fill="rgb(226,200,200)"
stroke="rgb(150,100,100)"
      stroke-width="0.015" />
```

```
      <g id="windmill">
        <!- A windmill with a rotating set of three vanes. ->
          <rect x="-0.05" y="0" width="0.1" height="3" fill="#AA9999" />
          <g transform="translate(0,3)">
            <g transform="rotate(0)">
              <animateTransform attributeName="transform" attributeType="XML"
type="rotate" from="360" to="0" dur="7s" fill="remove" repeatCount="indefinite"/>
                <use xlink:href="#vane" />
                <use xlink:href="#vane" transform="rotate(120)" />
                <use xlink:href="#vane" transform="rotate(240)" />
            </g>
          </g>
      </g>
   </defs>
   <g transform="translate(0,4) scale(1,-1)">
      <rect x="0" y="-1" width="7" height="5" fill="rgb(220,230,255)" />
      <polygon points="0,-1 0,0.8 1.5,1.65 1.8,1.3 3,2.1 4.7,0.7,6.1, 1.2,7,0.8,7,-1"
fill="green" />
      <rect x="0" y="-0.4" width="7" height="0.8" fill="rgb(80,80,95)" />
        <rect x="0" y="-0.02" width="7" height="0.04" fill="rgb(220,230,255)" />
        <use xlink:href="#sun" transform="translate(5.8,3.2)" />
        <use xlink:href="#windmill" transform="translate(3.7,0.8) scale(0.7,0.7)" />
        <use xlink:href="#windmill" transform="translate(0.75,1) scale(0.6,0.6)" />
        <!-three windmills ->
          <use xlink:href="#windmill" transform="translate(2.2,1.3) scale(0.4,0.4)" />
          <use xlink:href="#cart" />
   </g>
</svg>
```

OUTPUT:



```
/* ********************************************************************** */
AIM      : Create the following drawing using SVG
NAME     : JAGADISH.S.S
REG NO : U05DP22S0083
DATE     : 28/3/2024
/* ********************************************************************** */
<!DOCTYPE html>
<html>
<head>
  <title>SVG Lion</title>
</head>
<body>
  <svg height="800" width="960" xmlns="http://www.w3.org/2000/svg">
     <path d="M 150 80 Q 235 30 290 80" stroke="black" fill="orange" />
    <g id="fur">
   <path d="M 120 100 Q 100 70 150 80" stroke="black" fill="orange"/>
      <path d="M 120 100 Q 60 150 120 150" stroke="black" fill="orange" />
      <path d="M 120 150 Q 60 200 120 200" stroke="black" fill="orange" />
      <path d="M 120 200
            Q 60 270 120 270
            Q 140 320 180 300
            Q 160 340 220 335
            " stroke="black" fill="orange" />
    </g>
    <use xlink:href="#fur" transform="translate(440,0) scale(-1,1)" />
    <rect x="120" y="80" width="200" height="150" fill="orange"></rect>
    <polygon points="130,230 220,335 300,230" fill="orange" />
    <g id="ear">
     <ellipse cx="163" cy="120" rx="22" ry="25" stroke="black" fill="yellow"
transform="rotate(-35,163,120)" />
      <circle cx="165" cy="123" r="15" stroke="black" fill="hotpink" />
    </g>
    <use xlink:href="#ear" transform="translate(440,0) scale(-1,1)" />
    <g id="face">
     <path d="M 165 135 Q 90 245 190 275" stroke="black" fill="yellow" />
    </g>
    <use xlink:href="#face" transform="translate(440,0) scale(-1,1)" />
    <polygon points="165,135 275, 135 250,275 190,275" fill="yellow" />
    <path d="M 165 135 Q 235 70 275 135" stroke="black" fill="yellow" />
    <path d="M 190 275 Q 225 290 250 275" stroke="black" fill="yellow" />
    <g id="eye">
     <path d="M 178 148 Q 190 130 203 148" stroke="black" fill="transparent" />
     <ellipse cx="192" cy="167" rx="9" ry="13" stroke="black" fill="white" />
     <ellipse cx="192" cy="170" rx="8" ry="10" />
    </g>
    <use xlink:href="#eye" transform="translate(50,0)" />
```

```
    <ellipse cx="217" cy="227" rx="10" ry="15" fill="black" />
    <circle cx="195" cy="220" r="22" fill="hotpink" />
    <circle cx="240" cy="220" r="22" fill="hotpink" />
    <ellipse cx="217" cy="200" rx="20" ry="13" fill="black" />
</svg>
</body>
</html>
```

OUTPUT:

/* ** */

AIM : Create a web page using HTML and CSS to create a timetable.
NAME : JAGADISH.S.S
REG NO : U05DP22S0083
DATE : 21/3/2024

/* ** */

```
<!DOCTYPE html>
<html>
 <head>
  <title>time table</title>
  <link rel="stylesheet" href="style.css" />
 </head>
 <body>
  <h1><center>COLLEGE TIME TABLE</center></h1>
  <table>
   <tr>
    <td id="sub1"></td>
    <td id="sub">8:30-9:30</td>
    <td id="sub">9:30-10:30</td>
    <td id="sub">10:30-11:30</td>
    <td id="sub">11:30-12:30</td>
    <td id="sub">12:30-2:00</td>
    <td id="sub">2:00-3:00</td>
    <td id="sub">3:00-4:00</td>
    <td id="sub">4:00-5:00</td>
   </tr>
   <tr>
    <td id="sub">MONDAY</td>
    <td id="blank">--</td>
    <td id="box1">SUB1</td>
    <td id="box2">SUB2</td>
    <td id="box3">SUB3</td>
    <td rowspan="6">L<br />U<br />N<br />C<br />H</td>
    <td id="box4">SUB4</td>
    <td id="box5">SUB5</td>
    <td id="s">counselling class</td>
   </tr>
   <tr>
    <td id="sub">TUESDAY</td>
    <td id="box1">SUB1</td>
    <td id="box2">SUB2</td>
    <td id="box3">SUB3</td>
    <td id="blank">---</td>
    <td id="box2">SUB2</td>
    <td id="box2">SUB2</td>
    <td id="sub2">library</td>
```

```
    </tr>
    <tr>
      <td id="sub">WEDNESDAY</td>
      <td id="box1">SUB1</td>
      <td id="box2">SUB2</td>
      <td id="box5">SWA</td>
      <td id="blank">---</td>
      <td colspan="3" id="sub3">LAB</td>
    </tr>
    <tr>
      <td id="sub">THURSDAY</td>
      <td id="box1">SUB1</td>
      <td id="box2">SUB2</td>
      <td id="box3">SUB3</td>
      <td id="blank">---</td>
      <td id="box2">SUB2</td>
      <td id="box2">SUB2</td>
      <td id="sub2">library</td>
    </tr>
    <tr>
      <td id="sub">FRIDAY</td>
      <td id="box1">SUB1</td>
      <td id="box2">SUB2</td>
      <td id="box3">SUB3</td>
      <td id="blank">---</td>
      <td id="box4">SUB4</td>
      <td id="box5">SUB5</td>
      <td id="sub2">library</td>
    </tr>
    <tr>
      <td id="sub">SATURDAY</td>
      <td id="box1">SUB1</td>
      <td colspan="3" id="seminar">seminar</td>
      <td id="box4">SUB4</td>
      <td id="box5">SUB5</td>
      <td id="sub2">library</td>
    </tr>
  </table>
 </body>
</html>
```

Style.css

```
body {
   background-color: #ffffff;
   mix-blend-mode: darken;
}
```

```
header h1 {
    margin-top: 10%;
    text-align: center;
    color: black;
    font-weight: bold;
    font-family: sans-serif;
}
table {
    margin-top: 2%;
    width: max-content;
    border: 1px solid black;
    height: 300px;
    margin-left: 23%;
}
td {
    text-align: center;
    border: 1px solid black;
}
#blank {
    color: #000;
    background-color: #fff;
}
#s {
    font-weight: 800;
    text-transform: uppercase;
    font-family: sans-serif;
    background-color: #ffffff;
}
#seminar {
    font-weight: 800;
    font-family: sans-serif;
    background-color: #ffffff;
    text-transform: uppercase;
}
#sub {
    color: black;
    font-family: sans-serif;
    font-weight: 400;
    background-color: #ffffff;
}
#sub1 {
    background-color: #fff;
}
#sub2 {
    color: black;
    text-transform: uppercase;
```

```
    background-color: #ffffff;
}
#sub3 {
    background-color: #ffffff;
    font-family: sans-serif;
    font-weight: 800;
}
#box1 {
    color: cornflowerblue;
    font-family: sans-serif;
    font-weight: 800;
}
#box2 {
    color: darkorange;
    font-weight: 800;
    font-family: sans-serif;
}
#box3 {
    color: darkviolet;
    font-weight: 800;
    font-family: sans-serif;
}
#box4 {
    color: green;
    font-weight: 800;
    font-family: sans-serif;
}
#box5 {
    color: red;
    font-family: sans-serif;
    font-weight: 800;
}
```

OUTPUT:

COLLEGE TIME TABLE

	8:30-9:30	9:30-10:30	10:30-11:30	11:30-12:30	12:30-2:00	2:00-3:00	3:00-4:00	4:00-5:00
MONDAY	--	SUB1	SUB2	SUB3	LUNCH	SUB4	SUB5	COUNSELLING CLASS
TUESDAY	SUB1	SUB2	SUB3	---		SUB2	SUB2	LIBRARY
WEDNESDAY	SUB1	SUB2	SWA	---		LAB		
THURSDAY	SUB1	SUB2	SUB3	---		SUB2	SUB2	LIBRARY
FRIDAY	SUB1	SUB2	SUB3	---		SUB4	SUB5	LIBRARY
SATURDAY	SUB1	SEMINAR				SUB4	SUB5	LIBRARY

PART-B

/* ********** */

AIM : Create a web page using HTML5 canvas element to show a clock which changes time for every second, minute and hours (as that of an analog clock). Clock should have second, minute and hour needles and minute marking must be there.

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 14/3/2024

/* ********** */

```
<!DOCTYPE html>
<html>
<head>
   <title>clock</title>
   <style>
      canvas {
         background-color: white;
      }
   </style>
</head>
<body>
   <canvas id="canvas" width="150" height="150">The currect time</canvas>
</body>
<script>
   function clock() {
      const now = new Date();
      const canvas = document.getElementById("canvas");
      const ctx = canvas.getContext("2d");
      ctx.save();
      ctx.clearRect(0, 0, 150, 150);
      ctx.translate(75, 75);
      ctx.scale(0.4, 0.4);
      ctx.rotate(-Math.PI / 2);
      ctx.strokeStyle = "black";
      ctx.fillStyle = "white";
      ctx.lineWidth = 8;
      ctx.lineCap = "round";
      ctx.save();
      for (let i = 0; i < 12; i++) {
         ctx.beginPath();
         ctx.rotate(Math.PI / 6);
         ctx.moveTo(100, 0);
         ctx.lineTo(120, 0);
         ctx.stroke();
      }
      ctx.restore();
      ctx.save();
```

```
ctx.lineWidth = 5;
for (let i = 0; i < 60; i++) {
   if (i %5 != 0) {
      ctx.beginPath();
      ctx.moveTo(117, 0);
      ctx.lineTo(120, 0);
      ctx.stroke();
   }
   ctx.rotate(Math.PI / 30);
}
ctx.restore();
const sec = now.getSeconds();
const min = now.getMinutes();
const hr = now.getHours() % 12;
ctx.fillStyle = "black";
canvas.innerText = 'The time is:$(hr):${min)';
ctx.save();
ctx.rotate(
   (Math.PI / 6) * hr + (Math.PI / 360) * min + (Math.PI / 21600) * sec);
ctx.lineWidth = 14;
ctx.beginPath();
ctx.moveTo(-20, 0);
ctx.lineTo(80, 0);
ctx.stroke();
ctx.restore();
ctx.save();
ctx.rotate((Math.PI / 30) * min + (Math.PI / 1800) * sec);
ctx.lineWidth = 10;
ctx.beginPath();
ctx.moveTo(-28, 0);
ctx.lineTo(112, 0);
ctx.stroke();
ctx.restore();
ctx.save();
ctx.rotate((sec * Math.PI) / 30);
ctx.strokeStyle = "red";
ctx.fillStyle = "red";
ctx.lineWidth = 6;
ctx.beginPath();
ctx.moveTo(-30, 0);
ctx.lineTo(83, 0);
ctx.stroke();
ctx.beginPath();
ctx.arc(0, 0, 10, 0, Math.PI * 2, true);
ctx.fill();
ctx.beginPath();
```

```
        ctx.arc(95, 0, 10, 0, Math.PI * 2, true);
        ctx.stroke();
        ctx.fillStyle = "rgba(0,0,0,0)";
        ctx.arc(0, 0, 3, 0, Math.PI * 2, true);
        ctx.fill();
        ctx.restore();
        ctx.beginPath();
        ctx.lineWidth = 14;
        ctx.strokeStyle = "#325FA2"
        ctx.arc(0, 0, 142, 0, Math.PI * 2, true);
        ctx.stroke();
        ctx.restore();
        window.requestAnimationFrame(clock);
    }
    window.requestAnimationFrame(clock);
</script>
</body>
</html>
```

OUTPUT:

/* ********** */

AIM : Create a web page containing simple calculator which should have basic arithmetic (+,-,*,/) operation on two floating point numbers and show result. Validations to be followed:

- **. (Decimal point) should be taken only once for an operand.**
- **Operand can be negative.**
- **Division by zero must be shown proper error message in result.**

NAME : JAGADISH.S.S
REG NO : U05DP22S0083
DATE : 28/3/2024

/* ********** */

```
<!DOCTYPE html>
<html lang="en"dir="ltr">
<head>
   <meta charset="utf-8">
   <title>simple calculator using HTML,CSS,and Javascript</title>
   <link rel="stylesheet" href="style.css">
</head>
<body>
   <table class="calculator">
      <tr>
      <td colspan="3"><input class="display-box"type="text" id="result"disabled/>
      </td>
      <td><input type="button" value="c" onclick="clearScreen()" id="btn"/></td>
   </tr>
   <tr>
      <td><input type="button" value="1"onclick=" display('1')"/></td>
      <td><input type="button" value="2"onclick=" display('2')"/></td>
      <td><input type="button" value="3"onclick=" display('3')"/></td>
      <td><input type="button" value="/"onclick=" display('/')"/></td>
   </tr>
   <tr>
      <td><input type="button"value="4"onclick=" display('4')"/></td>
      <td><input type="button"value="5"onclick=" display('5')"/></td>
      <td><input type="button"value="6"onclick=" display('6')"/></td>
      <td><input type="button"value="-"onclick=" display('-')"/></td>
   </tr>
   <tr>
      <td><input type="button"value="7"onclick=" display('7')"/></td>
      <td><input type="button"value="8"onclick=" display('8')"/></td>
      <td><input type="button"value="9"onclick=" display('9')"/></td>
      <td><input type="button"value="+"onclick=" display('+')"/></td>
   </tr>
    <tr>
      <td><input type="button"value="."onclick=" display('.')"/></td>
      <td><input type="button"value="0"onclick=" display('0')"/></td>
```

```
      <td> <input type="button"value="="onclick="calculate()"id="btn"/></td>
        <td><input type="button"value="*"onclick="display('*')"/></td>
    </tr>
   </table>
   <script type="text/Javascript"src="script.js"></script>
</body>
</html>
```

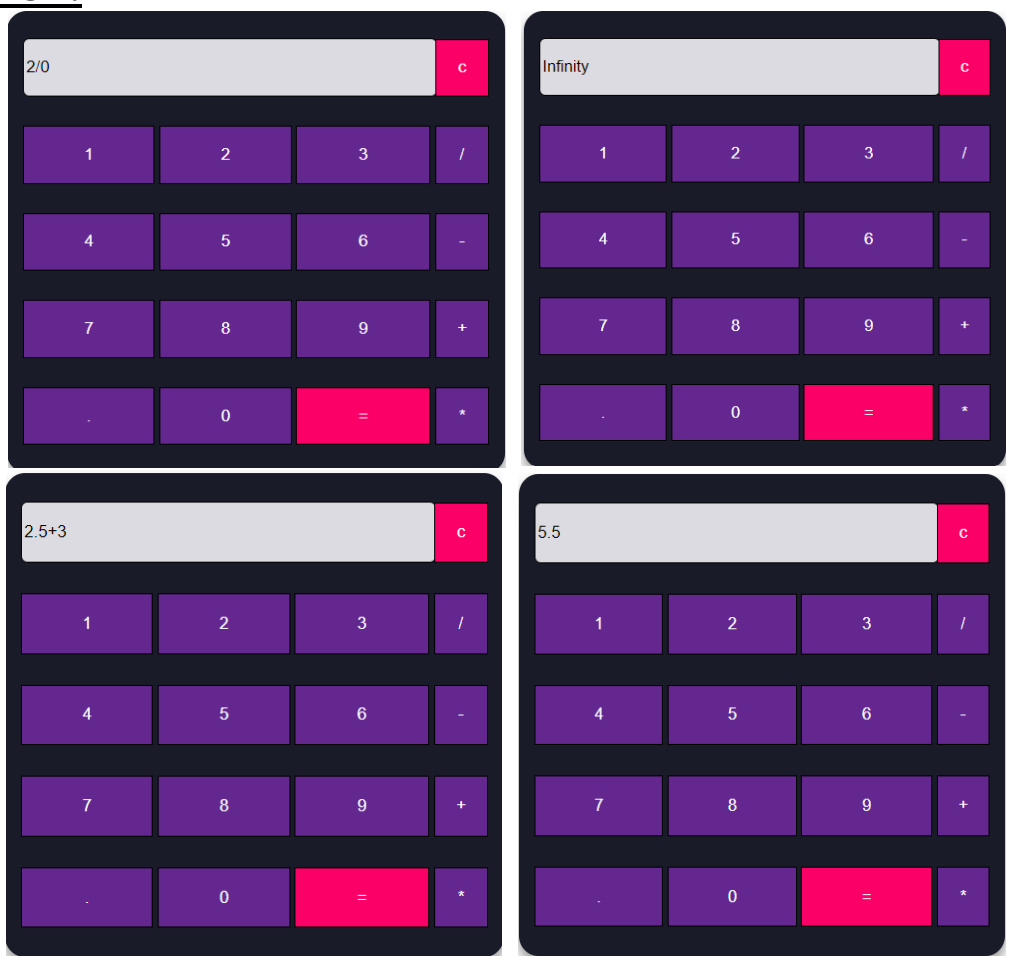
Style.css

```
@import url('https://googleapis.com/css2?family==orbition&display==swap');
.calculator{
padding: 10px;
border-radius: 1em;
height: 380px;
width: 400px;
margin: auto;
background-color: #191b28;
box-shadow: rgba(0,0,0,0.19)0px 10px 20px,rgba(0,0,0,0.23)0px 6px 6px;
}
.display-box{
   font-family: 'orbitron',sans-serif;
   background-color: #dcdbe1;
   border: solid black 0.5px;
   color: black;
   border-radius: 5px;
   width: 100%;
   height: 65%;
}
#btn{
   background-color: #fb0066;
}
input[type=button]{
   font-family: 'orbitron', sans-serif;
   background-color:#64278f;
   color: white;
   border: solid black 0.5px;
   width: 100%;
   height: 70%;
   outline: none;
}
input:active[type=button]{
   background: #e5e5e5;
   -webkit-box-shadow: inset 0px 0px 5px #c1c1c1;
   -moz-box-shadow: inset 0px 0px 5px #c1c1c1;
   box-shadow: inset 0px 0px 5px #c1c1c1;
}
```

Script.js

```
function clearScreen() {
document.getElementById("result").value="";
}
function display(value){
document.getElementById("result").value+=value;
}
function calculate(){
var p=document.getElementById("result").value;
var q=eval(p);
document.getElementById("result").value=q;
}
```

OUTPUT:



/* ** */

AIM : Create a HTML page make a quiz game where user should answer one question at a time, answers must be shown in radio buttons. Without submitting the answer, quiz should not move to next question (Minimum five questions must be there). When user wishes to get score (using score button) score should be displayed in alert 22 message. All the question must be loaded in same page (no page navigation is allowed.

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 11/4/2024

/* ** */

```
<!DOCTYPE html>
<html>
  <head>
    <title>QUIZ</title>
    <style>
      *{
        box-sizing:border-box;
      }
      .quiz-header
      {
        padding:2px;
        border-radius: 8px;
        background-color: white;
      }
      h2
      {
        padding:1px;
        text-align: center;
        margin:0;
      }
      body
      {
        background-color: #b8c6db;
        display: flex;
        align-items: center;
        justify-content: center;
        height: 100vb;
        margin: 0;
      }
      .quiz-container
      {
        background-color: #fff;
        border-radius: 10px;
        width:500px;
        max:width 95px;
```

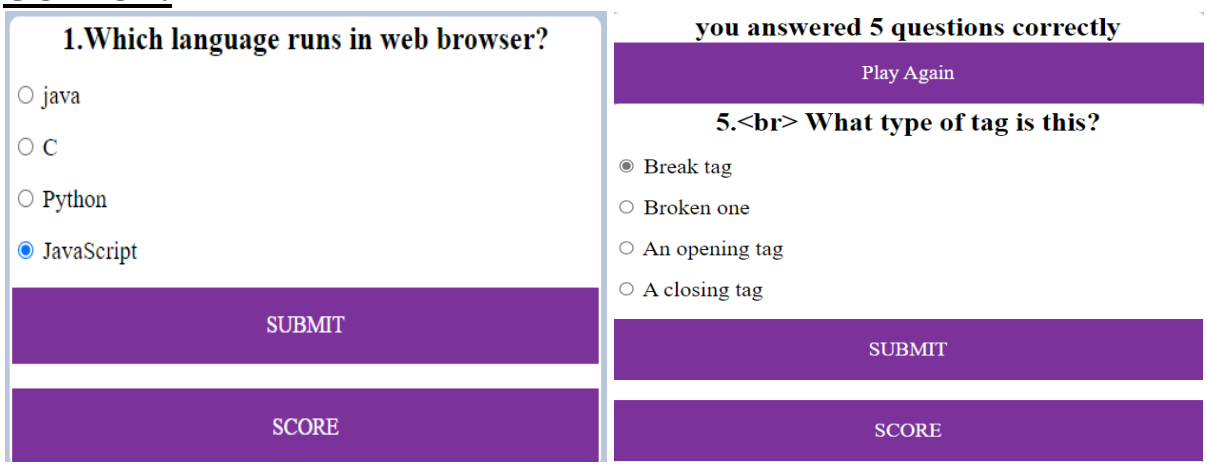
```
        }
        ul
        {
           list-style-type: none;
           padding: 0;
        }
        ul li
        {
           font-size: 1.2rem;
           margin: 1rem 0;
        }
        ul li label
        {
           cursor: pointer;
        }
        button
        {
           background-color: #7b339b;
           color: #fff;
           border: none;
           display:block;
           width: 100%;
           cursor: pointer;
           font-size: 1.1rem;
           font-family: inherit;
           padding: 1.1rem;
        }
        button:hover
        {
           background-color: #732d91;
        }
        border:focus
        {
           outline: none;
           background-color: #5e3370;
        }
        </style>
  </head>
        <body>
           <section>
              <div class="quiz-container" id="quiz"></div>
              <div class="quiz-header">
                 <h2 id="question">Question is loading...</h2>
                 <ul>
                    <li>
                       <input type="radio" name="answer" id="a" class="answer"/>
```

```
                <label for="a" id="a_text"/>Answer...</label>
            </li>
            <li>
                <input type="radio" name="answer" id="b" class="answer"/>
                <label for="b" id="b_text"/>Answer...</label>
            </li>
            <li>
                <input type="radio" name="answer" id="c" class="answer"/>
                <label for="c" id="c_text"/>Answer...</label>
            </li>
            <li>
                <input type="radio" name="answer" id="d" class="answer"/>
                <label for="d" id="d_text"/>Answer...</label>
            </li>
        </ul>
        <button id="submit">SUBMIT</button>
        <br>
        <button id="score" onclick="scorecheck()">SCORE</button>
    </div>
</section>
<script>
    const quizData=
    [{
        question:"1.Which language runs in web browser?",
        a:"java",
        b:"C",
        c:"Python",
        d:"JavaScript",
        correct:"d",
    },
    {
        question:"2.What does CSS stands for?",
        a:"CENTRAL STYLE SHEET",
        b:"CASCADING STYLE SHEET",
        c:"CASCADING SIMPLE SHEET",
        d:"CAR SUVs SAILEBOATS",
        correct:"b"
    },
    {
        question:"3.What does HTML stands for?",
        a:"HYPERTEXT MARKUP LANGUAGE",
        b:"HYPERTEXT MARKDOWN LANGUAGE",
        c:"HYPERLOOP MACHINE LANGUAGE",
        d:"HELICOPTER TERMINAL MOTORBOATS LAMBORGINI",
        correct:"a"
    },
```

```
{
   question:"4.Which year was javascript launched?",
   a:"1996",
   b:"1995",
   c:"1954",
   d:"None of the above",
   correct:"b"
},
{
   question:"5.<br> What type of tag is this?",
   a:"Break tag",
   b:"Broken one",
   c:"An opening tag",
   d:"A closing tag",
   correct:"a",
}];
const quiz=document.getElementById("quiz");
const answerElements=document.querySelectorAll(".answer");
const questionElement=document.getElementById("question");
const a_text=document.getElementById("a_text");
const b_text=document.getElementById("b_text");
const c_text=document.getElementById("c_text");
const d_text=document.getElementById("d_text");
const submitButton=document.getElementById("submit");
let currentQuiz=0;
let score=0;
const deselectAnswers=()=>
{
   answerElements.forEach((answer)=>(answer.checked=false));
};
const getSelected=()=>
{
   let answer;
   answerElements.forEach((answerElements)=>
   {
      if(answerElements.checked)answer=answerElements.id;
   });
   return answer;
};
const loadQuiz=()=>
{
   deselectAnswers();
   const currentQuizData=quizData[currentQuiz];
   questionElement.innerText=currentQuizData.question;
   a_text.innerText=currentQuizData.a;
   b_text.innerText=currentQuizData.b;
```

```
            c_text.innerText=currentQuizData.c;
            d_text.innerText=currentQuizData.d;
        };
        function scorecheck()
        {
            alert(score);
        }
        loadQuiz();
        submitButton.addEventListener("click",()=>
        {
            const answer=getSelected();
            if(answer){
                if(answer==quizData[currentQuiz].correct) score++;
                currentQuiz++;
                if(currentQuiz<quizData.length)
                loadQuiz();
            else
            {
                quiz.innerHTML=`<h2>you answered ${score} questions correctly</h2>
                <button onclick="history.go(0)">Play Again</button>`
            }
            }
        });
    </script>
</body>
</html>
```

OUTPUT:



/* ********** */

AIM : Create a web page using HTML/CSS which contains cards (shown as a stack of cards) with image of a tourist place and below that is a thumbnail (shown in circle with image). When mouse hovers over thumbnail, corresponding card comes in front and also small description about the tourist place will be displayed. Use ONLY CSS animation and transition. (Java script should not be used to animate.)

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 9/5/2024

/* ********** */

index.html

```
<!DOCTYPE html>
<head>
  <title> Hover Animation </title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <div class="icon-image">
      <div class="icon">
        <img src="agra.jpg" alt="">
      </div>
      <div class="hover-image">
        <div class="img">
          <img src="agra.jpg" alt="">
        </div>
        <div class="content">
          <div class="details">
            <div class="name">Taj Mahal</div>
            <div class="job"> Agra || Uttar Pradesh</div>
          </div>
        </div>
      </div>
    </div>
    <div class="icon-image">
      <div class="icon">
        <img src="hampi.jpg" alt="">
      </div>
      <div class="hover-image">
        <div class="img">
          <img src="hampi.jpg" alt="">
        </div>
        <div class="content">
          <div class="details">
            <div class="name">Hampi</div>
```

```
          <div class="job">Ballari || Karnataka</div>
        </div>
       </div>
     </div>
    </div>
    <div class="icon-image">
     <div class="icon">
      <img src="dallake.jpg" alt="">
     </div>
     <div class="hover-image">
      <div class="img">
       <img src="dallake.jpg" alt="">
      </div>
      <div class="content">
       <div class="details">
        <div class="name">Daal Lake</div>
        <div class="job">Kashmir || Kashmir</div>
       </div>
      </div>
     </div>
    </div>
  </div>
</body>
</html>
```

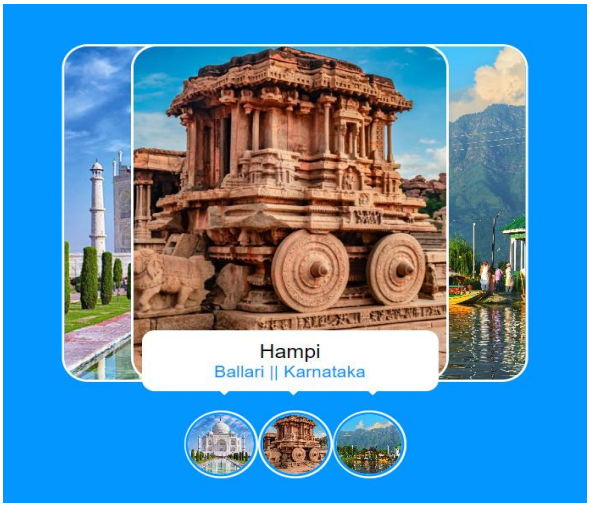
style.css

```
*{
  box-sizing: border-box;
  font-family: 'Poppins',sans-serif;
}
body{
  height: 100vh;
  width: 100%;
  display: flex;
  justify-content: center;
  align-items: center;
  background: #0396FF;
}
.container{
  height: 500px;
  display: flex;
  min-width: 400px;
  align-items: flex-end;
}
.icon-image{
  position: relative;
```

```
  height: 70px;
  width: 70px;
  cursor: pointer;
  border-radius: 50%;
  background: #fff;
}
.icon-image .icon img{
  position: absolute;
  height: 95%;
  width: 95%;
  left: 50%;
  top: 50%;
  transform: translate(-50%, -50%);
  object-fit: cover;
  border-radius: 50%;
  border: 3px solid #0396FF;
}
.icon-image .hover-image{
  position: absolute;
  height: 350px;
  width: 300px;
  bottom: 100px;
  left: 50%;
  transform: translateX(-50%);
}
.icon-image:hover .hover-image{
  left: -200px;
  z-index: 12;
  transform: translateX(80px);
  transition: left 0.5s ease, z-index 0s, transform 0.5s ease;
  transition-delay: 0s, 0.5s, 0.5s;
}
.hover-image img{
  position: absolute;
  height: 100%;
  width: 100%;
  object-fit: cover;
  border: 3px solid #fff;
  border-radius: 25px;
}
.hover-image .content{
  position: absolute;
  width: 100%;
  bottom: -10px;
padding: 0 10px;
}
```

```
.content::before{
content: '';
position: absolute;
height: 20px;
width: 20px;
background: #fff;
left: 50%;
bottom: -7px;
transform: rotate(45deg) translateX(-50%);
z-index: -1;
}
.content .details{
  position: relative;
  background: #fff;
  padding: 10px;
  border-radius: 12px;
  text-align: center;
  opacity: 0;
}
.icon-image:hover .details{
  transition: all 0.5s ease;
  transition-delay: 0.9s;
  opacity: 1;
}
.content .details .name{
 font-size: 20px;
 font-weight: 500;
}
.content .details .job{
 font-size: 17px;
 color: #0396FF;
}
```

OUTPUT:



/* ** */

AIM : Create a web page using HTML5/CSS3 to animate a truck movement. While truck moves trees should move in the back ground.
For tree, truck and wheels download the images from the following URLs.
https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/tree.svg
https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/truck.svg
https://s3-us-west-2.amazonaws.com/s.cdpn.io/130015/wheels.svg
Animation must be pure CSS and Java script should not be used.

NAME : JAGADISH.S.S
REG NO : U05DP22S0083
DATE : 11/4/2024

/* ** */

speedy-truck.html

```
<!DOCTYPE html>
<head>
<title>Speedy Truck</title>
<link rel="stylesheet" href="speedytruck.css">
</head>
<body>
<div class="loop-wrapper">
  <div class="mountain"></div>
  <div class="hill"></div>
  <div class="tree"></div>
  <div class="truck"></div>
  <div class="wheels"></div>
</div>
</body>
</html>
```

Speedytruck.css

```
body {
  background: #009688;
  }
.loop-wrapper {
  margin: 0 auto;
  position: relative;
  width: 600px;
  height: 250px;
  overflow: hidden;
  border-bottom: 3px solid #fff;
  }
.tree{
  position: absolute;
  height: 100px;
  width: 35px;
  bottom: 0;
```

```
  background: url(tree.svg) no-repeat;
}
.truck, .wheels {
  width: 85px;
  bottom: 0px;
  right: 50%;
  position: absolute;
  }
.truck {
  background: url(truck.svg) no-repeat;
   height: 60px;
}
.truck:before {
  content: " ";
  position: absolute;
  width: 25px;
  box-shadow:
    -30px 28px 0 1.5px #fff,
     -35px 18px 0 1.5px #fff;
}
.wheels {
  background: url(wheels.svg) no-repeat;
  height: 15px;
}
.tree  { animation: tree 3s 0.000s linear infinite; }
@keyframes tree {
  0%   { transform: translate(1350px); }
  50% {}
  100% { transform: translate(-50px); }
}
```

tree.svg

```
<svg xmlns="http://www.w3.org/2000/svg" width="32" height="100" viewBox="0 0 32
100">
  <path fill="#FFF" d="M31.945 74.986L17.37 1.148A1.416 1.416 0 0 0 15.988 0c-.673 0-
1.252.48-1.383 1.148L.027 74.986c-.083.42.025.854.292 1.186.268.332.669.523
1.091.523h13.167V100h2.821V76.695h13.165c.422 0 .821-.191 1.09-.523.27-.331.375-
.766.292-1.186z"/>
</svg>
```

truck.svg

```
<svg xmlns="http://www.w3.org/2000/svg" width="85" height="60" viewBox="0 0 85 60">
  <path fill="#FFF" d="M5.138 54.039a3.77 3.77 0 0 1-.149-.005l-.859.002A4.134 4.134 0 0
1 0 49.906V5.195a4.135 4.135 0 0 1 4.13-4.133h46.973c2.272 0 4.123 1.95 4.123
4.229v44.612a4.133 4.133 0 0 1-4.127 4.131H29.962c-1.091-.019-3.239-.691-3.727-3.128-
1.067-3.957-4.755-6.789-8.947-6.789-4.291 0-8.098 3.041-9.051 7.229-.225 1.817-1.723
```

```
2.693-3.099 2.693zM4.127 4.208c-.596 0-1.083.389-1.083.987v44.709c0 .597.488 1.086
1.086 1.086h1.004c.005-.047.123-.271.133-.317 1.267-5.562 6.323-9.597 12.022-
9.597a12.356 12.356 0 0 1 11.912 9.137c.151.734.681.777.785.777h21.111c.596 0 1.083-
.487 1.083-1.084V5.293c0-.598-.485-1.085-1.083-1.085H4.127zM84.929 35.828s-.093-
2.093-.288-3.118c-.164-.873-1.087-2.644-1.087-2.644l-7.299-13.59c-.951-1.52-3.115-2.707-
4.558-2.707H60.785a2.608 2.608 0 0 0-2.606 2.609v33.526a2.609 2.609 0 0 0 2.606
2.609h.643s.949-.123 1.304-1.312c.986-3.933 4.514-6.862 8.749-6.862 4.145 0 7.612 2.808
8.682 6.613.442 1.612 2.231 1.561 2.231 1.561A2.608 2.608 0 0 0 85 49.904l-.071-
14.076zm-6.603-3.511H65.312a1.996 1.996 0 0 1-1.989-1.99V20.143c0-1.098.894-1.99
1.989-1.99h4.365c2.483 0 4.117 2.009 4.63 2.978l5.065 9.434c.521.962.053 1.752-1.046
1.752z"/>
  <path fill="#009688" d="M4.127 4.208c-.596 0-1.083.389-1.083.987v44.709c0 .597.488
1.086 1.086 1.086h1.004c.005-.047.123-.271.133-.317 1.267-5.562 6.323-9.597 12.022-
9.597a12.356 12.356 0 0 1 11.912 9.137c.151.734.681.777.785.777h21.111c.596 0 1.083-
.487 1.083-1.084V5.293c0-.598-.485-1.085-1.083-1.085H4.127z"/>
</svg>
```

wheels.svg

```
<svg xmlns="http://www.w3.org/2000/svg" width="85" height="15" viewBox="0 0 85 15">
  <circle fill="#FFF" cx="17.289" cy="8.413" r="6.587"/>
  <circle fill="#FFF" cx="71.48" cy="8.412" r="6.586"/>
</svg>
```

OUTPUT:

/* ** */

AIM : Create a simple paint app which draws lines based on the selected colour (chosen using color input) with selected thickness (chosen using number input) and there must be CLEAR button to clear the canvas.

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 25/4/2024

/* ** */

tree.html

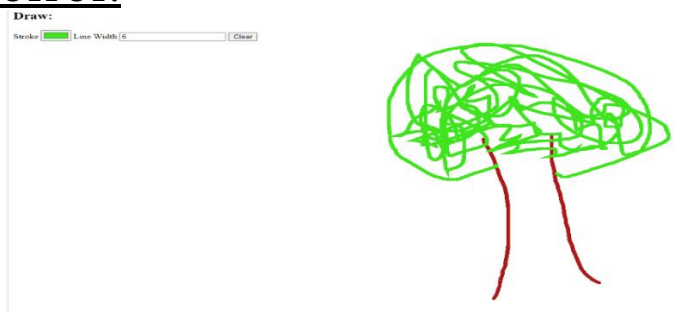
```
<!DOCTYPE html>
<head>
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale-1.0">
   <link rel="stylesheet" href="paint.css">
   <title>Drawing app</title>
</head>
<section class="container">
   <div id="toolbar">
      <h1>Draw:</h1>
      <label for="stroke">Stroke</label>
      <input id="stroke" type="color" value="#ff0000">
      <label for="lineWidth">Line Width</label>
      <input id="lineWidth" type="number" value="5">
      <button id="clear">Clear</button>
   </div>
   <div class="drawing-board">
      <canvas id="drawing-board"></canvas>
   </div>
</section>
<script src="./index.js"></script>
</body>
</html>
```

Index.js

```
const canvas = document.getElementById('drawing-board');
const toolbar = document.getElementById('toolbar');
const ctx = canvas.getContext('2d');
const canvasOffsetX = canvas.offsetLeft;
const canvasOffsetY = canvas.offsetTop;
canvas.width = window.innerWidth - canvasOffsetX;
canvas.height = window.innerHeight - canvasOffsetY;
let isPainting = false;
let lineWidth = 5;
let startX;
let startY;
toolbar.addEventListener('click', e => {
```

```
    if (e.target.id === 'clear') {
        ctx.clearRect(0, 0, canvas.width, canvas.height);
    }
});
toolbar.addEventListener('change', e => {
    if (e.target.id === 'stroke') {
        ctx.strokeStyle = e.target.value;
    }
    if (e.target.id === 'lineWidth') {
        lineWidth = parseInt(e.target.value);
    }
});
const draw = (e) => {
    if (!isPainting) {
        return;
    }
    ctx.lineWidth = lineWidth;
    ctx.lineCap = 'round';
    ctx.lineTo(e.clientX - canvasOffsetX, e.clientY - canvasOffsetY);
    ctx.stroke();
}
canvas.addEventListener('mousedown', (e) => {
    isPainting = true;
    startX = e.clientX - canvasOffsetX;
    startY = e.clientY - canvasOffsetY;
    ctx.beginPath();
    ctx.moveTo(startX, startY);
});
canvas.addEventListener('mouseup', e => {
    isPainting = false;
    ctx.closePath();
});
canvas.addEventListener('mousemove', draw);
```

OUTPUT:



/* ******** */**

AIM :Create web page using HTML5 canvas element to illustrate all canvas composition.

NAME : JAGADISH.S.S

REG NO : U05DP22S0083

DATE : 2/5/2024

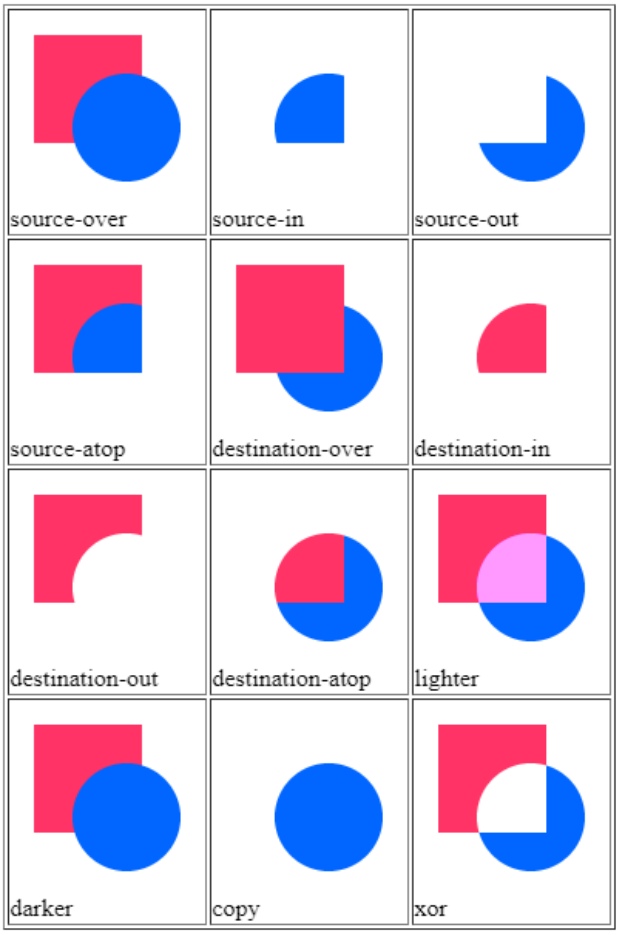
/* ******** */**

```
<html>
<head>
   <script type="text/javascript">
      var compositeTypes = [
         'source-over', 'source-in', 'source-out', 'source-atop',
         'destination-over', 'destination-in', 'destination-out',
         'destination-atop', 'lighter', 'darker', 'copy', 'xor'
      ];
      function drawShape() {
         for (i = 0; i < compositeTypes.length; i++) {
            var label = document.createTextNode(compositeTypes[i]);
            document.getElementById('lab' + i).appendChild(label);
            var ctx = document.getElementById('tut' + i).getContext('2d');
            ctx.fillStyle = "#FF3366";
            ctx.fillRect(15, 15, 70, 70);
            ctx.globalCompositeOperation = compositeTypes[i];
            ctx.fillStyle = "#0066FF";
            ctx.beginPath();
            ctx.arc(75, 75, 35, 0, Math.PI * 2, true);
            ctx.fill();
         }
      }
   </script>
</head>

<body onload="drawShape();">
   <table border="1" align="center">
      <tr>
         <td><canvas id="tut0" width="125" height="125"></canvas><br /> <label
id="lab0"></label>
         </td>
         <td><canvas id="tut1" width="125" height="125"></canvas><br />
            <label id="lab1"></label>
         </td>
         <td><canvas id="tut2" width="125" height="125"></canvas><br />
            <label id="lab2"></label>
         </td>
      </tr>
      <tr>
```

```
        <td><canvas id="tut3" width="125" height="125"></canvas><br />
          <label id="lab3"></label>
        </td>
        <td><canvas id="tut4" width="125" height="125"></canvas><br />
          <label id="lab4"></label>
        </td>
        <td><canvas id="tut5" width="125" height="125"></canvas><br />
          <label id="lab5"></label>
        </td>
      </tr>
      <tr>
        <td><canvas id="tut6" width="125" height="125"></canvas><br />
          <label id="lab6"></label>
        </td>
        <td><canvas id="tut7" width="125" height="125"></canvas><br />
          <label id="lab7"></label>
        </td>
        <td><canvas id="tut8" width="125" height="125"></canvas><br />
          <label id="lab8"></label>
        </td>
      </tr>
      <tr>
        <td><canvas id="tut9" width="125" height="125"></canvas><br />
          <label id="lab9"></label>
        </td>
        <td><canvas id="tut10" width="125" height="125"></canvas><br />
          <label id="lab10"></label>
        </td>
        <td><canvas id="tut11" width="125" height="125"></canvas><br />
          <label id="lab11"></label>
        </td>
      </tr>
    </table>
</body>
</html>
```

OUTPUT:


source-over
source-in
source-out
source-atop
destination-over
destination-in
destination-out
destination-atop
lighter
darker
copy
xor

/* ** */

AIM : Create a web page which must be as shown in below image using HTML5, SVG and CSS3. Here Mountain must be drawn using SVG, Stars in sky changes their position randomly for every time page is loaded (java script can be used). Sky and stars must be created using <canvas> element.
Note: No Online (live access) CSS files must be used.

NAME : JAGADISH.S.S
REG NO : U05DP22S0083
DATE : 2/5/2024

/* ** */

svgscene2.html

```
<!DOCTYPE html>
<head>
<title> SVG SCENE</title>
<link rel="stylesheet" type="text/css" href="sky.css"/>
<script>
window.onload = function()
{
var sky = document.getElementById("sky");
sky.width = document.body.clientWidth;
sky.height = document.body.clientHeight;
if (sky.getContext){
   var skyContext = sky.getContext("2d");
   var radius = 2;
   for(var star = 0; star < 50; star++){
      var min = ( Math.random() * 30 + 5 ) / 10;
      var max = sky.width - radius;
      var centerX = Math.floor(Math.random() * (max - min + 1)) + min;
      var centerY = Math.floor(Math.random() * (max - min + 1)) + min;
      skyContext.beginPath();
      skyContext.arc(centerX, centerY, min, 0, 2 * Math.PI);
      skyContext.fillStyle = "rgb(255, 255, 255)";
      skyContext.fill();
   }
}
}
</script>
</head>
<body>
<section class="stage">
   <svg height="390" width="550" id="mountains">
     <polygon points="300,390 190,90 320,130 400,340" fill="#5d2042" />
     <polygon points="0,340 108,190 194,100 201,120 301,390" fill="#320e40" />
     <polygon points="14,348 117,174 194,102 172,377" fill="#3b1642" fill-opacity="0.8" />
     <polygon points="120,174 194,102 233,206 144,275"fill="#3d1744"fill-opacity="0.9" />
      <polygon points="233,206 288,177 324,214" fill="#421943" />
```

```
      <polygon points="233,206 324,214 247,245" fill="#3e1743" />
      <polygon points="247,245 324,214 360,360" fill="#411842" />
      <polygon points="324,214 288,177 350,210" fill="#632242" />
      <polygon points="324,214 350,210 360,360" fill="#652343" />
      <g id="apex">
         <polygon points="108,190 170,40 194,100" fill="#aeacb9" />
         <polygon points="170,40 234,6 260,70 288,178 194,102" fill="#ceced8" />
         <polygon points="234,6 290,80 320,132 288,178" fill="#ffffed" />
      </g>
   </svg>
   <svg id="ground"></svg>
   <svg id="hills" width="700" height="170">
      <polygon points="480,70 530,100 560,90 516,40" fill="#9b9d57" />
      <polygon points="480,70 530,100 412,84" fill="#7d8f57" />
      <polygon points="530,100 412,84 360,138" fill="#748857" />
      <polygon points="360,138 240,140 320,82" fill="#748857" />
      <polygon points="412,84 360,140 320,82" fill="#88945a" />
      <polygon points="320,82 240,140 210,64" fill="#597252" />
      <polygon points="300,78 100,100 0,104 170,58" fill="#4f654f" />
      <polygon points="172,58 145,40 122,48 66,79 0,104" fill="#536a50" />
   </svg>
   <canvas id="sky"></canvas>
</section>
</body>
</html>
```

sky.css

```
html, body {
        height: 100%;
        width: 100%
}
body {
         min-height: 100%;
         background: linear-gradient(to bottom, #0a1a27, #4e83b7);
         position: relative;
}
body #mountains {
         z-index: 2;
         position: absolute;
         bottom: 20%;
         margin-bottom: -16px;
         left: 10%;
}
body #ground {
         z-index: 1;
         width: 100%;
```

```
        height: 20%;
        position: absolute;
        bottom: 0;
        background: #879759;
        background: linear-gradient(to bottom, #879759, #648459);
}
 body #hills {
        position: absolute;
        left: 10%;
        margin-left: -120px;
        margin-bottom: -86px;
        bottom: 20%;
        z-index: 3;
}
 body #stars {
        width: 100%;
        height: 100%;
}
```

OUTPUT: