

24INMCAL191 WEB & WORKSPACE
AUTOMATION LAB

u r website with
html and a-frame



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About Project

This A-Frame project presents a vibrant 3D beach scene that immerses viewers in the charm of a sunny seaside day. Animated waves roll onto the shore, while a bright sun and drifting clouds create a peaceful atmosphere overhead. A volleyball net sits at the center, flanked by two balls bouncing on either side, adding dynamic energy to the scene. The beach is dotted with colorful umbrellas, lounge chairs, towels, and tall, swaying palm trees, inviting viewers to imagine relaxing under the shade. A playful interactive feature includes a small crab scuttling along the sand; when clicked, it “escapes” into the waves, only to return to the shore after a short time, adding a whimsical touch. Together, these elements create an engaging and visually rich beach environment, perfect for a momentary escape.





Course Information

INMCAL191 is a course that delves into the world of 3D visualization, animation, and interactive experiences. This course teaches students the fundamentals of HTML, CSS, JavaScript, and LaTeX, empowering them to create

immersive web-based applications and virtual environments. By mastering these technologies, students will be well- prepared for the ever-evolving landscape of web development and workspace automation.





MOVEMENTS ON THE WEBSITE

- 1). sea move towards the shore by 1 unit in z axis
- 2). Two balls bouncing by 1.5 unit in y axis
- 3). sun moves up and down within a long duration
- 4). clouds moving in same direction with different speed due to different durations





INTERACTIVITY ON THE WEBSITE

- 1). two crabs on both side of the beach will move towards the sea, if we click on it





Source Code

```
!DOCTYPE html>
```

```
<html>
  <head>
    <title>Beach and Sea Scene - A-Frame</title>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/aframe/1.4.2/aframe.min.js"></script>

  </head>
  <body>
    <a-scene>
      <!-- Sky -->
      <a-sky color="#007fff"></a-sky>
      <!-- sun -->
      <a-sphere position="10 50 -100" radius="5" color="#FDB813" animation="property:position;
      dir: alternate;
      dur: 130500;
      easing: easeInOutQuad;
      loop: true;
      to: 10 50 -100;
      from:10 -5 -100"></a-sphere>

      <!-- Clouds -->
      <!-- Cloud 1 - -->
      <a-entity>
        <a-entity position="-15 19 -100" animation="property: position; to: 150 25 -100; from:-
150 25 -100; dur: 27000; loop: true; easing: linear">
          <a-sphere position="0 0 0" radius="2" color="white" material="shader: flat"></a-sphere>
          <a-sphere position="2 1.2 0" radius="1.8" color="white" material="shader: flat"></a-
sphere>
          <a-sphere position="-2 1.1 0" radius="1.9" color="white" material="shader: flat"></a-
sphere>
          <a-sphere position="1.5 -1.2 0" radius="1.7" color="white" material="shader: flat"></a-
sphere>
          <a-sphere position="-1.5 -1.1 0" radius="1.8" color="white" material="shader:
flat"></a-sphere>
        </a-entity>

        <!-- Cloud 2 -->
        <a-entity position="-10 10 -150" animation="property: position; to: 150 25 -100;from:-150
19 -100; dur: 25000; loop: true; easing: linear">
          <a-sphere position="0 0 0" radius="1.2" color="white" material="shader: flat"></a-
sphere>
          <a-sphere position="1.2 0.2 0" radius="1" color="white" material="shader: flat"></a-
sphere>
          <a-sphere position="-1.2 0.1 0" radius="1.1" color="white" material="shader: flat"></a-
sphere>
          <a-sphere position="0.6 -0.2 0" radius="0.9" color="white" material="shader: flat"></a-
sphere>
          <a-sphere position="-0.6 -0.1 0" radius="1" color="white" material="shader: flat"></a-
sphere>
        </a-entity>

        <!-- Cloud3 -->
```

```

    <a-entity position="-5 6 -120" animation="property: position; to: 150 25 -100; from:-150
19 -100;dur: 22000; loop: true; easing: linear">
      <a-sphere position="0 0 0" radius="0.8" color="white" material="shader: flat"></a-
sphere>
      <a-sphere position="0.8 0.1 0" radius="0.6" color="white" material="shader: flat"></a-
sphere>
      <a-sphere position="-0.8 0.1 0" radius="0.7" color="white" material="shader: flat"></a-
sphere>
      <a-sphere position="0.4 -0.1 0" radius="0.5" color="white" material="shader: flat"></a-
sphere>
      <a-sphere position="-0.4 -0.1 0" radius="0.6" color="white" material="shader:
flat"></a-sphere>
    </a-entity></a-entity>

    <!-- Lighting -->
    <a-entity light="type: ambient; color: #FFF; intensity: 0.8"></a-entity>
    <a-entity light="type: directional; color: #FFF; intensity: 1.2; castShadow: true"
position="0 10 25"></a-entity>

    <!-- Sea plane -->
    <a-plane
      position="0 0.5 -16"
      rotation="-90 0 0"
      width="300"
      height="28"
      color="#0077be"
      material="shader: standard; metalness: 0.6; roughness: 0.4"
      animation="property:position;
      dir: alternate;
      dur: 1000;
      easing: easeInOutQuad;
      loop: true;
      to: 0 0.5 -18;
      from:0 0.5 -17"
    ></a-plane>

    <!-- Beach plane -->
    <a-plane
      position="0 0.01 4"
      rotation="-90 0 0"
      width="300"
      height="20"
      color="#c2b280"
      material="shader: standard; roughness: 1"
    ></a-plane>

    <!-- Beach Umbrella -->
    <a-entity position="0 0 3">
      <!-- Umbrella Pole -->
      <a-cylinder position="0 2 0" height="4" radius="0.05" color="#8B4513"></a-cylinder>
      <!-- Umbrella Top -->
      <a-entity position="0 3.8 0">
        <a-cone position="0 0.5 0" radius-bottom="2" radius-top="0" height="0.8"
color="#FF0000" rotation="180 0 0"></a-cone>
      </a-entity>
    </a-entity>

```



```

    <!-- Beach Chairs -->
    <!-- Chair 1 -->
    <a-entity position="-2 0.2 5" rotation=" 0 170 0">
        <!-- Seat -->
        <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
        <!-- Back -->
        <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
        <!-- Legs -->
        <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
    </a-entity>

    <!-- Chair 2 -->
    <a-entity position="3 0.2 5" rotation="0 -170 0">
        <!-- Seat -->
        <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
        <!-- Back -->
        <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
        <!-- Legs -->
        <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
    </a-entity>

    <!--umbrella 2-->
    <a-entity position="8 0 3">
        <!-- Umbrella Pole -->
        <a-cylinder position="0 2 0" height="4" radius="0.05" color="#8B4513"></a-cylinder>
        <!-- Umbrella Top -->
        <a-entity position="0 3.8 0">
            <a-cone position="0 0.5 0" radius-bottom="2" radius-top="0" height="0.8"
color="#FF0000" rotation="180 0 0"></a-cone>
        </a-entity>
    </a-entity>

    <!-- Beach Chairs -->
    <!-- Chair 1 -->
    <a-entity position="7 0.2 5" rotation=" 0 170 0">
        <!-- Seat -->
        <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
        <!-- Back -->

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    <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
    <!-- Legs -->
    <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
  </a-entity>

  <!-- Chair 2 -->
  <a-entity position="10 0.2 5" rotation="0 -170 0">
    <!-- Seat -->
    <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
    <!-- Back -->
    <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
    <!-- Legs -->
    <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
  </a-entity>

  <!--umbrella 3-->
  <a-entity position="-8 0 3">
    <!-- Umbrella Pole -->
    <a-cylinder position="0 2 0" height="4" radius="0.05" color="#8B4513"></a-cylinder>
    <!-- Umbrella Top -->
    <a-entity position="0 3.8 0">
      <a-cone position="0 0.5 0" radius-bottom="2" radius-top="0" height="0.8"
color="#FF0000" rotation="180 0 0"></a-cone>
    </a-entity>
  </a-entity>

  <!-- Beach Chairs -->
  <!-- Chair 1 -->
  <a-entity position="17 0.2 5" rotation=" 0 170 0">
    <!-- Seat -->
    <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
    <!-- Back -->
    <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
    <!-- Legs -->
    <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

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        <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
    </a-entity>

    <!-- Chair 2 -->
    <a-entity position="14 0.2 5" rotation="0 -170 0">
        <!-- Seat -->
        <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
        <!-- Back -->
        <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
        <!-- Legs -->
        <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
    </a-entity>

    <!--umbrella 4-->
    <a-entity position="16 0 3">
        <!-- Umbrella Pole -->
        <a-cylinder position="0 2 0" height="4" radius="0.05" color="#8B4513"></a-cylinder>
        <!-- Umbrella Top -->
        <a-entity position="0 3.8 0">
            <a-cone position="0 0.5 0" radius-bottom="2" radius-top="0" height="0.8"
color="#FF0000" rotation="180 0 0"></a-cone>
        </a-entity>
    </a-entity>

    <!-- Beach Chairs -->
    <!-- Chair 1 -->
    <a-entity position="-7 0.2 5" rotation="0 170 0">
        <!-- Seat -->
        <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
        <!-- Back -->
        <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
        <!-- Legs -->
        <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
        <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
    </a-entity>

    <!-- Chair 2 -->
    <a-entity position="-10 0.2 5" rotation="0 -170 0">

```

```
<!-- Seat -->
<a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>

<!-- Back -->
<a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>

<!-- Legs -->
<a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

<a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

<a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

<a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
</a-entity>

<!--umbrella 5-->
<a-entity position="-16 0 3">
  <!-- Umbrella Pole -->
  <a-cylinder position="0 2 0" height="4" radius="0.05" color="#8B4513"></a-cylinder>
  <!-- Umbrella Top -->
  <a-entity position="0 3.8 0">
    <a-cone position="0 0.5 0" radius-bottom="2" radius-top="0" height="0.8"
color="#FF0000" rotation="180 0 0"></a-cone>
  </a-entity>
</a-entity>

<!-- Beach Chairs -->
<!-- Chair 1 -->
<a-entity position="-17 0.2 5" rotation="0 170 0">
  <!-- Seat -->
  <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>

  <!-- Back -->
  <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>

  <!-- Legs -->
  <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

  <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

  <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

  <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
</a-entity>

<!-- Chair 2 -->
<a-entity position="-14 0.2 5" rotation="0 -170 0">
  <!-- Seat -->
  <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>

  <!-- Back -->
  <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>

  <!-- Legs -->
```

```

    <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
  </a-entity>

  <!-- umbrella 6-->
  <a-entity position="24 0 3">
    <!-- Umbrella Pole -->
    <a-cylinder position="0 2 0" height="4" radius="0.05" color="#8B4513"></a-cylinder>
    <!-- Umbrella Top -->
    <a-entity position="0 3.8 0">
      <a-cone position="0 0.5 0" radius-bottom="2" radius-top="0" height="0.8"
color="#FF0000" rotation="180 0 0"></a-cone>
    </a-entity>
  </a-entity>

  <!-- Beach Chairs -->
  <!-- Chair1 -->
  <a-entity position="22 0.2 5" rotation=" 0 170 0">
    <!-- Seat -->
    <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
    <!-- Back -->
    <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
    <!-- Legs -->
    <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
  </a-entity>

  <!-- Chair 2 -->
  <a-entity position="24 0.2 5" rotation="0 -170 0">
    <!-- Seat -->
    <a-box position="0 0.2 0" width="1.2" height="0.1" depth="1" color="#8B4513"></a-
box>
    <!-- Back -->
    <a-box position="0 0.8 -0.45" width="1.2" height="1.2" depth="0.1" rotation="-30 0
0" color="#8B4513"></a-box>
    <!-- Legs -->
    <a-cylinder position="0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="-0.5 0.1 0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>
    <a-cylinder position="0.5 0.1 -0.4" height="0.2" radius="0.05" color="#8B4513"></a-
cylinder>

```

```

    <a-cylinder position="-0.5 0.1 -0.4" height="0.2" radius="0.05"
color="#8B4513"></a-cylinder>
  </a-entity>

  <!-- Palm Trees -->
  <a-entity position="0 0 8">
    <!-- Trunk -->
    <a-cylinder position="0 2 0" height="8" radius="0.2" color="#8B4513"></a-cylinder>
    <!-- Leaves -->
    <a-entity position="0 6 0">
      <a-cone position="0.8 0 0.8" rotation="30 45 0" height="2" radius-bottom="0.8"
color="#228B22"></a-cone>
      <a-cone position="-0.8 0 0.8" rotation="30 135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
      <a-cone position="0.8 0 -0.8" rotation="30 -45 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
      <a-cone position="-0.8 0 -0.8" rotation="30 -135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
    </a-entity>
  </a-entity>

  <!-- Palm Trees 2-->
  <a-entity position="12 0 7">
    <!-- Trunk -->
    <a-cylinder position="0 2 0" height="8" radius="0.2" color="#8B4513"></a-cylinder>
    <!-- Leaves -->
    <a-entity position="0 6 0">
      <a-cone position="0.8 0 0.8" rotation="30 45 0" height="2" radius-bottom="0.8"
color="#228B22"></a-cone>
      <a-cone position="-0.8 0 0.8" rotation="30 135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
      <a-cone position="0.8 0 -0.8" rotation="30 -45 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
      <a-cone position="-0.8 0 -0.8" rotation="30 -135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
    </a-entity>
  </a-entity>

  <!-- Palm Trees 3 -->
  <a-entity position="-15 0 9">
    <!-- Trunk -->
    <a-cylinder position="0 2 0" height="8" radius="0.2" color="#8B4513"></a-cylinder>
    <!-- Leaves -->
    <a-entity position="0 6 0">
      <a-cone position="0.8 0 0.8" rotation="30 45 0" height="2" radius-bottom="0.8"
color="#228B22"></a-cone>
      <a-cone position="-0.8 0 0.8" rotation="30 135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
      <a-cone position="0.8 0 -0.8" rotation="30 -45 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
      <a-cone position="-0.8 0 -0.8" rotation="30 -135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
    </a-entity>
  </a-entity>

  <!-- Palm Trees 4 -->
  <a-entity position="20 0 10">
    <!-- Trunk -->

```

```

    <a-cylinder position="0 2 0" height="8" radius="0.2" color="#8B4513"></a-cylinder>
    <!-- Leaves -->
    <a-entity position="0 6 0">
        <a-cone position="0.8 0 0.8" rotation="30 45 0" height="2" radius-bottom="0.8"
color="#228B22"></a-cone>
        <a-cone position="-0.8 0 0.8" rotation="30 135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
        <a-cone position="0.8 0 -0.8" rotation="30 -45 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
        <a-cone position="-0.8 0 -0.8" rotation="30 -135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
    </a-entity>
</a-entity>

<!-- Palm Trees 5-->
<a-entity position="-22 0 8">
    <!-- Trunk -->
    <a-cylinder position="0 2 0" height="8" radius="0.2" color="#8B4513"></a-cylinder>
    <!-- Leaves -->
    <a-entity position="0 6 0">
        <a-cone position="0.8 0 0.8" rotation="30 45 0" height="2" radius-bottom="0.8"
color="#228B22"></a-cone>
        <a-cone position="-0.8 0 0.8" rotation="30 135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
        <a-cone position="0.8 0 -0.8" rotation="30 -45 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
        <a-cone position="-0.8 0 -0.8" rotation="30 -135 0" height="2" radius-
bottom="0.8" color="#228B22"></a-cone>
    </a-entity>
</a-entity>

<!-- Beach Volleyball Net -->
<a-entity position="-40 0 4" rotation="0 90 0">
    <!-- Poles -->
    <a-cylinder position="-2.5 1.5 0" height="3" radius="0.05" color="#696969"></a-
cylinder>
    <a-cylinder position="2.5 1.5 0" height="3" radius="0.05" color="#696969"></a-
cylinder>

    <!-- Net -->
    <a-box position="0 1.5 0" width="5" height="1" depth="0.02" color="white"
opacity="0.5"></a-box>
</a-entity>

<!-- Beach Volleyball Net 2 -->
<a-entity position="40 0 4" rotation="0 90 0">
    <!-- Poles -->
    <a-cylinder position="-2.5 1.5 0" height="3" radius="0.05" color="#696969"></a-
cylinder>
    <a-cylinder position="2.5 1.5 0" height="3" radius="0.05" color="#696969"></a-
cylinder>

    <!-- Net -->
    <a-box position="0 1.5 0" width="5" height="1" depth="0.02" color="white"
opacity="0.5"></a-box>
</a-entity>

<!-- Beach Towel -->

```

```

    <a-entity>
      <a-plane position="4 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#FF69B4"></a-plane>
    </a-entity>
    <!-- Beach Towel -->
    <a-entity>
      <a-plane position="4 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#87ceeb"></a-plane>
    </a-entity>
    <!-- Beach Towel 2 -->
    <a-entity>
      <a-plane position="7 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#FF69B4"></a-plane>
    </a-entity>
    <!-- Beach Towel 3-->
    <a-entity>
      <a-plane position="-5 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#87ceeb"></a-plane>
    </a-entity>
    <!-- Beach Towel 4-->
    <a-entity>
      <a-plane position="-8 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#FF69B4"></a-plane>
    </a-entity>
    <!-- Beach Towel 5 -->
    <a-entity>
      <a-plane position="-15 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#87ceeb"></a-plane>
    </a-entity>
    <!-- Beach Towel 6-->
    <a-entity>
      <a-plane position="15 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#FF69B4"></a-plane>
    </a-entity>
    <!-- Beach Towel 7-->
    <a-entity>
      <a-plane position="20 0.02 -1" rotation="-90 90 0" width="2" height="1"
color="#87ceeb"></a-plane>
    </a-entity>

    <!-- Beach Ball -->
    <a-entity position="36 0 4" animation="property: position;
dir: alternate;
dur: 500;
easing: easeInOutQuad;
loop: true;
to: 36 1.5 4;
from: 36 0 4" > <!--increas dur: in order to change duration ,to: mention to
where,from : mention to where -->
      <a-sphere position="0 0.3 0" radius="0.3" color="white" float-animation>
        <a-ring position="0 0.03 0" radius-inner="0.28" radius-outer="0.3" color="red"></a-
ring>
        <a-ring position="0 0. 0" radius-inner="0.28" radius-outer="0.3" rotation="90 0 0"
color="blue"></a-ring>
      </a-sphere></a-entity>
    <!--beach ball 2-->
    <a-entity position="-43 0 4" animation="property: position;

```



```
dir: alternate;
dur: 500;
easing: easeInOutQuad;
loop: true;
to: -43 1.5 4;
from: -43 0 4">
<!--increas dur: in order to change duration ,to: mention to where,from :
```

```
mention to where -->
```

```
<a-sphere position="0 0.3 0" radius="0.3" color="white" float-animation>
  <a-ring position="0 0.03 0" radius-inner="0.28" radius-outer="0.3"
color="red"></a-ring>
  <a-ring position="0 0. 0" radius-inner="0.28" radius-outer="0.3" rotation="90 0 0"
color="blue"></a-ring>
</a-sphere></a-entity>
```

```
<!-- Seashells -->
```

```
<a-entity position="-3 0 -4">
  <a-cone position="0 0.1 0" rotation="60 0 0" radius-bottom="0.2" height="0.3"
color="#FFF5EE"></a-cone>
  <a-cone position="0.5 0.1 0.2" rotation="45 90 0" radius-bottom="0.15" height="0.25"
color="#FFE4E1"></a-cone>
</a-entity>
<a-entity position="-2d0 0 -4">
  <a-cone position="0 0.1 0" rotation="60 0 0" radius-bottom="0.2" height="0.3"
color="#FFF5EE"></a-cone>
  <a-cone position="0.5 0.1 0.2" rotation="45 90 0" radius-bottom="0.15"
height="0.25" color="#FFE4E1"></a-cone>
</a-entity>
<a-entity position="15 0 -4">
  <a-cone position="0 0.1 0" rotation="60 0 0" radius-bottom="0.2" height="0.3"
color="#FFF5EE"></a-cone>
  <a-cone position="0.5 0.1 0.2" rotation="45 90 0" radius-bottom="0.15"
height="0.25" color="#FFE4E1"></a-cone>
</a-entity>
<a-entity position="-15 0 -4">
  <a-cone position="0 0.1 0" rotation="60 0 0" radius-bottom="0.2"
height="0.3" color="#FFF5EE"></a-cone>
  <a-cone position="0.5 0.1 0.2" rotation="45 90 0" radius-bottom="0.15"
height="0.25" color="#FFE4E1"></a-cone>
</a-entity>
<a-entity position="19 0 -4">
  <a-cone position="0 0.1 0" rotation="60 0 0" radius-bottom="0.2"
height="0.3" color="#FFF5EE"></a-cone>
  <a-cone position="0.5 0.1 0.2" rotation="45 90 0" radius-bottom="0.15"
height="0.25" color="#FFE4E1"></a-cone>
</a-entity>
<!-- Small Rock Formation -->
<a-entity position="9 0.2 9">
  <a-sphere position="1 0.2 1" radius="0.2" color="#808080"></a-sphere>
  <a-sphere position="1.2 0.15 1.1" radius="0.1" color="#A9A9A9"></a-sphere>
</a-entity>
```

```
<a-entity position="20 0 10">
  <a-sphere position="1 0.2 1" radius="0.2" color="#808080"></a-sphere>
  <a-sphere position="1.2 0.15 1.1" radius="0.1" color="#A9A9A9"></a-sphere>
</a-entity>
```

```
<a-entity position="-15 0.2 7">
  <a-sphere position="1 0.2 1" radius="0.2" color="#808080"></a-sphere>
  <a-sphere position="1.2 0.15 1.1" radius="0.1" color="#A9A9A9"></a-sphere>
</a-entity>
```

```
<a-entity position="-30 0.2 3">
  <a-sphere position="1 0.2 1" radius="0.2" color="#808080"></a-sphere>
  <a-sphere position="1.2 0.15 1.1" radius="0.1" color="#A9A9A9"></a-sphere>
</a-entity>
```

```
<a-entity position="40 0.2 -3">
  <a-sphere position="1 0.2 1" radius="0.2" color="#808080"></a-sphere>
  <a-sphere position="1.2 0.15 1.1" radius="0.1" color="#A9A9A9"></a-sphere>
</a-entity>
```

```
<!--crab animation-->
<a-entity position=" 43 0 0 " rotation="0 -90 0"
animation="property: position; to: 43 -2 -9;dur: 2000; startEvents: click"
animation__1=" property:position; to:43 0 0 ; dur:2000; startEvents:
animationcomplete"
>
```

```
<!-- Crab Body -->
<a-sphere position="0 1 0" radius="0.4" color="#FF4040">
```

```
<!-- Eyes -->
<a-sphere position="0.2 0.3 0.4" radius="0.1" color="white">
  <a-sphere position="0 0 0.08" radius="0.05" color="black"></a-sphere>
</a-sphere>
<a-sphere position="-0.2 0.3 0.4" radius="0.1" color="white">
  <a-sphere position="0 0 0.08" radius="0.05" color="black"></a-sphere>
</a-sphere>
```

```
<!-- Legs -->
<a-cylinder position="0.6 -0.2 0" rotation="0 0 -45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
<a-cylinder position="-0.6 -0.2 0" rotation="0 0 45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
<a-cylinder position="0.6 -0.2 0.3" rotation="0 0 -45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
<a-cylinder position="-0.6 -0.2 0.3" rotation="0 0 45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
<a-cylinder position="0.6 -0.2 -0.3" rotation="0 0 -45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
<a-cylinder position="-0.6 -0.2 -0.3" rotation="0 0 45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
```

```
<!-- Claws -->
<a-box position="0.7 0 0.3" width="0.3" height="0.2" depth="0.2" color="#FF4040">
  <a-triangle position="-0.2 0 0" vertex-a="0 0.1 0" vertex-b="0.2 0 0" vertex-c="0 -
0.1 0" color="#FF4040"></a-triangle>
</a-box>
<a-box position="-0.7 0 0.3" width="0.3" height="0.2" depth="0.2" color="#FF4040">
  <a-triangle position="-0.2 0 0" vertex-a="0 0.1 0" vertex-b="-0.2 0 0" vertex-c="0 -
0.1 0" color="#FF4040"></a-triangle>
```

```

    </a-box>
  </a-sphere>
</a-entity>

  <!--crab animation2-->
  <a-entity position="-30 0 0 " rotation="0 90 0"
    animation="property: position; to: -30 -2 -9;dur: 2000; startEvents: click"
    animation__1=" property:position; to:-30 0 0 ; dur:2000; startEvents:
animationcomplete"
  >
    <!-- Crab Body 2-->
    <a-sphere position="0 1 0" radius="0.4" color="#FF4040">
      <!-- Eyes -->
      <a-sphere position="0.2 0.3 0.4" radius="0.1" color="white">
        <a-sphere position="0 0 0.08" radius="0.05" color="black"></a-sphere>
      </a-sphere>
      <a-sphere position="-0.2 0.3 0.4" radius="0.1" color="white">
        <a-sphere position="0 0 0.08" radius="0.05" color="black"></a-sphere>
      </a-sphere>

      <!-- Legs -->
      <a-cylinder position="0.6 -0.2 0" rotation="0 0 -45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
      <a-cylinder position="-0.6 -0.2 0" rotation="0 0 45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
      <a-cylinder position="0.6 -0.2 0.3" rotation="0 0 -45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
      <a-cylinder position="-0.6 -0.2 0.3" rotation="0 0 45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
      <a-cylinder position="0.6 -0.2 -0.3" rotation="0 0 -45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>
      <a-cylinder position="-0.6 -0.2 -0.3" rotation="0 0 45" radius="0.05" height="0.5"
color="#FF4040"></a-cylinder>

      <!-- Claws -->
      <a-box position="0.7 0 0.3" width="0.3" height="0.2" depth="0.2" color="#FF4040">
        <a-triangle position="-0.2 0 0" vertex-a="0 0.1 0" vertex-b="0.2 0 0" vertex-c="0 -
0.1 0" color="#FF4040"></a-triangle>
      </a-box>
      <a-box position="-0.7 0 0.3" width="0.3" height="0.2" depth="0.2" color="#FF4040">
        <a-triangle position="-0.2 0 0" vertex-a="0 0.1 0" vertex-b="-0.2 0 0" vertex-c="0 -
0.1 0" color="#FF4040"></a-triangle>
      </a-box>
    </a-sphere>
  </a-entity>

  <!-- Camera -->
  <a-entity position="0 2 2">
    <a-camera look-controls wasd-controls>
      <a-cursor ></a-cursor>
    </a-camera>

  </a-entity>
</a-scene>
</body>
</html>

```



Output

output

