ACT #47 Demo Code

pet_game.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0/dist/css/bootstrap.min.css"
    />
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"></script>
    <script src="js/pet.js"></script>
    <title>Simple Pet Game</title>
  </head>
  <body>
    <div class="container mt-5">
      <h1>Candy, the Sheep!</h1>
      <div class="row d-flex justify-content-start align-items-center">
        <div class="col-lg-3">
          <img src="img/sheep.jpg" id="pet" class="img-fluid" />
        </div>
        <div class="col-lg-6" id="game_bars">
          <p>Hunger</p>
          <div class="progress">
            <div
              class="progress-bar bg-warning"
              id="hunger_bar"
              style="width: 100%"
              role="progressbar"
            ></div>
          </div>
          <p>Exercise</p>
          <div class="progress">
```

```html
                <div
                    class="progress-bar bg-primary"
                    id="exercise_bar"
                    style="width: 100%"
                    role="progressbar"
                ></div>
            </div>
            <p>Sleep</p>
            <div class="progress">
                <div
                    class="progress-bar bg-success"
                    id="sleep_bar"
                    style="width: 100%"
                    role="progressbar"
                ></div>
            </div>
            <div class="col-lg-5 my-2 mx-1 d-flex justify-content-start">
                <img src="img/eat.png" width="40px" id="eat_icon" />
                <img src="img/exercise.png" width="40px" id="exercise_icon" />
                <img src="img/sleep.png" width="40px" id="sleep_icon" />
            </div>
            <div class="row">
                <span><b>Last Activity: </b><span id="last_activity"></span></span>
            </div>
          </div>
        </div>
      </div>
  </body>
</html>
```

pet.js

```javascript
$(document).ready(function () {
  let hunger = 100;
  let exercise = 100;
  let sleep = 100;

  $("#eat_icon").click(function () {
    hunger = 100;
    if (sleep >= 5) {
      sleep -= 5;
```

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    } else {
        sleep = 0;
    }
    $("#last_activity").text("Fed Candy!");
});


$("#exercise_icon").click(function () {
    exercise = 100;
    if (sleep >= 10) {
        sleep -= 10;
    } else {
        sleep = 0;
    }
    $("#last_activity").text("Played with Candy!");
});


$("#sleep_icon").click(function () {
    sleep = 100;
    $("#last_activity").text("Candy took a nap!");
});


function update_bars() {
    $("#hunger_bar").css("width", hunger + "%");
    $("#exercise_bar").css("width", exercise + "%");
    $("#sleep_bar").css("width", sleep + "%");
}


function passive_hunger() {
    if (hunger <= 0) {
        hunger = 0;
    } else {
        hunger--;
    }
}


function passive_exercise() {
    if (exercise <= 0) {
        exercise = 0;
    } else {
        exercise--;
```

```
        }
    }

    function passive_sleep() {
        if (sleep <= 0) {
            sleep = 0;
        } else {
            sleep--;
        }
    }

    setInterval(update_bars, 50);
    setInterval(passive_hunger, 500);
    setInterval(passive_exercise, 1000);
    setInterval(passive_sleep, 2000);
});
```