#### T. PRIYA VARSHA

ld: 16332852

#### Task-1

# **Objective:**

The main objective of this ICP is to learn about the Media queries, responsive web design, Bootstrap, Grid layout and basics of JavaScript

# Rock, Paper or Scissors Game

The task is to design a Rock, Paper or Scissors Game using HTML, JavaScript and CSS. Basic rules of the game is when Player picks one of the 3 given options based on a random selection by the computer it picks the winner.

```
<body style="background-color: rgb(50, 290, 170)" >
<div class="container-fluid"> <!-- This div has basic display contents and receiving score value from script.js-->
   <h1>Pick one of the below</h1>
   <h2 style="text-align: center;">Rock Paper Scissors</h2>
   <div class="container-fluid" class="row" id="response" style="text-align: center"></div>
    <div style="text-align: center">
        <h2><span class="player">Player</span>
           <span id="score"></span>
            <span class="computer">Computer</span></h2>
    </div>
    <div class="row">
            <div class="btn-group btn-group-lg" role="group"> <!-- Calling functions defined inn script.js with user's selection as a pa</pre>
                <button type="button" onclick="game('Rock')" class="btn btn-info"><img src="Images/Rock.png" height="300"</pre>
                                                                                          width="300"/></button>
                <button type="button" onclick="game('Paper')" class="btn btn-info"><img src="Images/Paper.png" height="300"</pre>
                                                                                           width="300"/></button>
                <button type="button" onclick="game('Scissors')" class="btn btn-info"><img src="Images/Scissors.png" height="300"</pre>
                                                                                               width="300"/></button>
            </div>
        </center>
</div>
<script src="script.js"></script><!--Linking Java script-->
</html>
```

# Output after compiling the ICP is:



# CSS file used for this HTML

```
.container{
   background-color: white;
   border-radius: 3px ;
margin: 50px auto;
   width: 600px;
   height: 520px;
   box-shadow: 3px 3px 30px rgba(0,0,0,0.1);
   font-family: Helvetica;
1}-
.container1{
   background-color: white;
   border-radius: 3px ;
   margin: 50px auto;
   width: 200px;
   height: 50px;
   padding: 10px;
   box-shadow: 3px 3px 30px rgba(0,0,0,0.1);
1}
h1 {
   text-align: center;
   color: rgba(5,5,5,1);
   padding: 40px 0px 10px;
```

#### Algorithm used in JavaScript

```
function game(pick){
   compare(<u>pick</u>);
}}//Value of pick is received from HTML which in turn calls the function with game logic
function compare(choice1) {
   var computerChoice = Math.random();
   if (computerChoice < 0.34) {
choice2 = "Paper";
  } else if (computerChoice <= 0.67) {
      choice2 = "Scissors";
} else {
      choice2 = "Rock";
if (choice1 === choice2) {
      Draw();
}
else if (choice1 === "Rock") {
       if (choice2 === "Scissors") {
       Winner();
      else {
       Loser();
```

When the Player selects one option, then the computer generates a random number within the range of 0 to 1 and the user option has certain probability and so by calculating probability score the winner is declared. Also, we have a score counter for each play whoever wins their score will be calculated. The output is as follows:

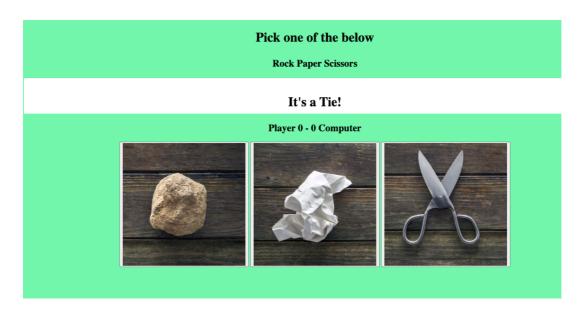
#### When player wins:



# When computer wins:



# When it's a tie:



Task -2
Responsive Web Design (RWD)

The task is to design a mockup page. The link to the sample mockup page: Sample mockup

To do this task, we are using a Responsive Web design. The images have been resized and placed in the respective folders.

#### Step 1: Added the respective links for Responsive Web design

#### Step 2: Changed the Name and designation

#### Step 3: Added the necessary images required to demonstrate RWD.

```
</div>
</missyle="height:3px;border-width:9px;color:black;background-color:darkblue">
</missyle="neight:3px;border-width:9px;color:black;background-color:darkblue">
</missyle="neight:40" | width=40" | widt
```

#### Step 4: Made required changed in Featured Work

```
<div class="row" style="text-align: center">
      <h2>Featured Work </h2>
   </div>
   <div class="row">
      <div class="col-lg-4">
         <img src="SampleImages/app1.png" height="250" width="350"/>
         <h3 style="text-align: center">Project1</h3>
         <a href="#">https://github.com/Privar11/Web_Mobile_Programming_ICP/</a>
      </div>
      <div class="col-lg-4">
         <img src="SampleImages/app2.png" height="250" width="350"/>
         <h3 style="text-align: center">Project2</h3>
         <a href="#">https://github.com/Privar11/Web_Mobile_Programming_ICP</a>
      </div>
      <div class="col-lg-4">
         <img src="SampleImages/app3.png" height="250" width="350"/>
         <h3 style="text-align: center">Project3</h3>
         <a href="#">https://github.com/Privar11/Web_Mobile_Programming_ICP</a>
      </div>
   </div>
</div>
</body>
</html>
```

# Output:

