```
//html
<!DOCTYPE html>
<html>
<head>
 <meta http-equiv="CONTENT-TYPE"
content="text/html; charset=UTF-8">
  <link rel="stylesheet"</pre>
href="index.css">
</head>
<body>
 <div class="box">
  0
  Game Over!
  <div id="ball"></div>
```

```
<div id="slide"></div>
 </div>
  <script src="index.js"></script>
</body>
</html>
//Css
body{
 margin:0px;
 padding:0px;
 background-color:pink;
#ball{
 position:absolute;
 height: 10vh;
 width: 10vh;
 border-radius:50%;
```

background-color: Red;

```
border:2px solid black;
 top:10px;
 background-image:url('Pictures/
t.jpg');
 background-size:cover;
#score{
 position:absolute;
 font-size: 15vh;
 text-align:center;
 top:20vh;
#mess{
 position:absolute;
```

```
top:43vh;
 font-size: 10vh;
 text-align:center;
 visibility:hidden;
.box{
 display:flex;
 justify-content:center;
 height: 100vh;
 width:99vw;
 touch-action:none;
 margin-top:-17px;
#slide{
 position:absolute;
```

```
height: 10vh;
 width:25vw;
 background-color:yellow;
 border-radius:3rem;
 touch-action:none;
 border:2px solid black;
 top:89%;
//Javascript
const draggable =
document.querySelector("#slide");
const
score=document.querySelector("#scor
e");
const
mess=document.querySelector("#mes
s");
```

```
const
body=document.querySelector("body"
);
const
ball=document.querySelector("#ball")
const
box=document.querySelector(".box");
const slideRect =
draggable.getBoundingClientRect();
const boxRect =
box.getBoundingClientRect();
```

let startX = 0; // Initial touch position let currentX = 0; // Current position of the element let offsetX = 0; // Offset between start and current touch points

```
let offsetY = 0;
let ballRadius = 25; // Radius of the
ball (half of 50px)
let ballSpeedX =
boxRect.width*(1/100); // Ball's
horizontal speed (pixels per frame)
let ballSpeedY =
boxRect.height*(0.7/100); // Ball's
vertical speed (pixels per frame)
let count=0;
const colors =
["Green","Blue","Orange",
"Purple","Pink",
                   "Brown",
"White","Gray",
                   "Cyan", "Magenta",
 "Lime","Olive",
                   "Navy"];
let i=0;
```

```
function vibrate(){
   if(navigator.vibrate){
    navigator.vibrate(200);
function checkCollision() {
 // Get the bounding rectangles of
both elements
 // Check if they overlap
 const ballRect =
ball.getBoundingClientRect();
 const slideRect =
draggable.getBoundingClientRect();
 const boxRect =
box.getBoundingClientRect();
```

let newX = ballRect.left +

```
ballSpeedX;
 let newY = ballRect.top + ballSpeedY;
 // Check for collision with the left or
right boundary of the box
 if (newX <= boxRect.left) {
  ballSpeedX =
Math.abs(ballSpeedX);
  vibrate();
  // Reverse direction to the right
 } else if (newX + ball.offsetWidth >=
boxRect.right) {
  ballSpeedX = -
Math.abs(ballSpeedX); // Reverse
direction to the left
  vibrate();
 if (newY <= boxRect.top) {
```

```
ballSpeedY =
Math.abs(ballSpeedY); // Reverse
direction downwards
  vibrate();
 else if (newY + ball.offsetHeight >=
boxRect.bottom) {
  ballSpeedY = -
Math.abs(ballSpeedY);
  vibrate();
  ballSpeedX=0;
  ballSpeedY=0;
draggable.removeEventListener('touc
hmove', handle Move);
  mess.style.visibility='visible';
```

```
return;
 if (
  newX + ball.offsetWidth >
slideRect.left &&
  newX < slideRect.right &&
  newy + ball.offsetHeight >
slideRect.top &&
  newy < slideRect.bottom
 ) {
  // Ball has collided with the slide,
reverse direction
  if (ballSpeedX > 0) {
   ballSpeedX = -
Math.abs(ballSpeedX);// Ball hit the
right side of the slide
   vibrate();
```

```
} else {
   ballSpeedX =
Math.abs(ballSpeedX);
   // Ball hit the left side of the slide
   vibrate();
  if (ballSpeedY > 0) {
   ballSpeedY = -
Math.abs(ballSpeedY);
   vibrate():
   // Ball
  } else {
   ballSpeedY = -
Math.abs(ballSpeedY); // Ball hit the
```

```
vibrate();
 count+=1;
  ballSpeedX *= 1.10; // Increase
speed by 10%
  ballSpeedY *= 1.10; // Increase
speed by 10%
body.style.backgroundColor=colors[i];
  i+=1;
  if(i==15) i=0;
```

top of the slide

```
// Update the ball's position
 ball.style.left = \${newX -
boxRect.left}px'; // Set left relative
to the box
 ball.style.top = \${newY -
boxRect.top}px'; // Set top relative to
the box
 score.innerText=`${count}`;
```

setInterval(checkCollision, 50); // Animate ball every 50ms

```
// Start touch
draggable.addEventListener('touchst
art', (e) => {
  const touch = e.touches[0];
```

```
offsetX = touch.clientX -
slideRect.left;
 offsetY=touch.clientY-slideRect.top;
});
// Handle movement
function handleMove(e){
 const touch = e.touches[0];
 let new X=touch.clientX-offsetX;
 let new Y=touch.clientY-offsetY;
 if(new X<boxRect.left){
  new X=boxRect.left;
if(new_X+slideRect.width>boxRect.rig
ht){
  new X=boxRect.right-
slideRect.width;
```

```
draggable.style.left=new X+boxRect.l
eft+'px';
draggable.addEventListener('touchmo
ve', handleMove);
// End touch
draggable.addEventListener('touchen
d', () => {
 // Update current position
 currentX = offsetX;
});
```