

### What is our GOAL for this MODULE?

In this class, we learned to add sound effects and animation to the game.

## What did we ACHIEVE in the class TODAY?

- Learned about arrays and their basic operations.
- Played some "hit" sound when the ball is bouncing off the paddle.
- Selected the sounds from the library.
- Added and displayed score to the game.

## Which CONCEPTS/ CODING BLOCKS did we cover today?

- Arrays and their basic operations.
- Add sound effects.
- Add animation life to the game.
- Add score to the game.



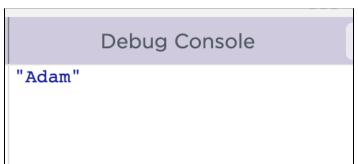
### How did we DO the activities?

- 1. Arrays and their basic operations.
- **A.** Store multiple names:

**B.** Store multiple type data:

```
Workspace
var prime_numbers = [2,3,5,7,11]
var friends = ['Adam', 'Parker', 'Virat', 'Kate', 'Tony'];
var mix = ['Adam', 13, 'Sydney', 'Male'];
```

**C.** Access the first element of the array:





2. Print alternate elements of the planet's array (array already defined in the program):

```
Workspace

1 var planets = ['Mercury', 'Venus', 'Earth', 'Mars', 'Jupiter', 'Saturn',
2 'Uranus', 'Neptune'];
3
4 console.log(planets[0]);
5 console.log(planets[2]);
6 console.log(planets[4]);
7 console.log(planets[6]);
```

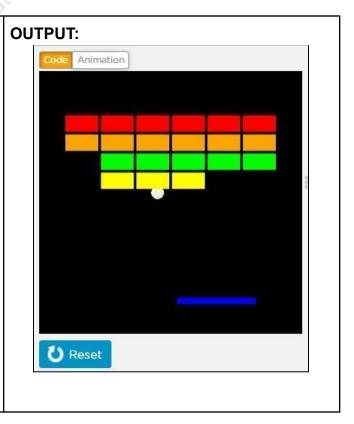
```
Debug Console

"Mercury"
"Earth"
"Jupiter"
"Uranus"
```

3. Add a code to destroy the brick when the ball bounces off it, and add customization in the bounceOff() function. Also, create a brickHit() function and call brick.destroy() in brickHit() function.

# CODE:

```
31 function draw(){
32
        background("black");
33
34
        paddle.x = World.mouseX;
35
        if(paddle.x < 60){
36 -
         paddle.x =60;
37
38
39
40 -
        if(paddle.x > 340){
41
          paddle.x = 340;
42
43
        drawSprites();
44
        ball.bounceOff(topEdge);
45
        ball.bounceOff(leftEdge);
46
        ball.bounceOff(rightEdge);
47
        ball.bounceOff(paddle);
48
        ball.bounceOff(bricks, brickHit);
49
      ball.bounceOff(rightEdge);
47
48
49
      ball.bounceOff(paddle);
      ball.bounceOff(bricks, brickHit);
49 }
50
51 function mousePressed(){
52 ball.velocityX = 4;
53 ball.velocityY = 2;
54 }
55
6 function brickHit(ball, 1
   function brickHit(ball, brick) {
57
58
      brick.destroy();
```



# CS-PRO-C5(V3)

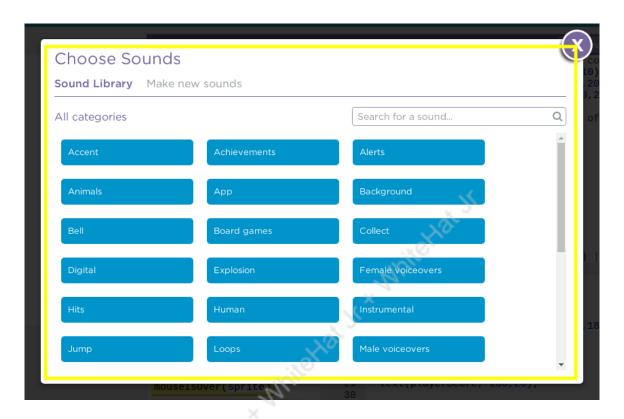


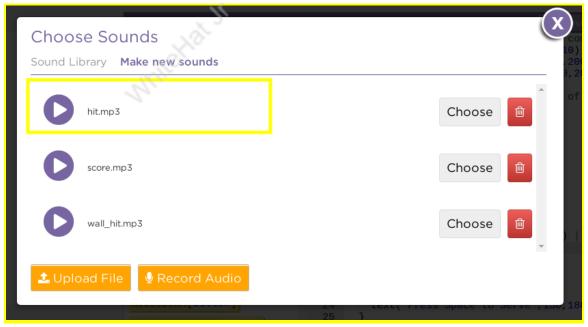
4. Add a "hit" sound if the paddles hit the ball.





5. Choose sounds from the available **Sound Library** OR create new sounds by uploading a file or recording some sound.





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6. Add score to the game. To display the score on the screen, it has to be stored somewhere.

```
Workspace

1 var ball.

2 var score = 0;

3 var score = 0;

4 ball.setAnimation("golfball_1");

5 ball.scale = 0.05;

6 ball.velocityX = 0;
```

```
function brickHit(ball, brick) {
    brick.remove();
    score = score+5;
}
```

7. Display the score on the game canvas. Decide a position in such a way that the Score doesn't hamper the game visibility of the player.

```
33
34 * function draw() {
35     background("black");
36
37     textSize(20);|
38     text("Score: "+score, 40, 25);
39
40     paddle.x = World.mouseX;
41
42     if(paddle.x < 60)</pre>
```



8. Choose the sound and animation effects for the soccer practice game.

```
function brickHit(ball. brick) {
  playSound("sound://category hits/puzzle game button 04.mp3")
  brick.remove();
  score = score+5;
}
```

```
drawSprites();
51
52
      //rotation = rotation + 5;
53
      ball.bounceOff(topEdge);
54
      ball.bounceOff(leftEdge);
55
      ball.bounceOff(rightEdge);
56
      //ball.bounceOff(paddle);
      ball.bounceOff(bricks, brickHit);
57
58
      if(ball.bounceOff(paddle))
59 🕶
        playSound("sound://category tap/pu
60
61
62
      if(!bricks[0])
63 +
        //console.log("Won");
64
65
        ball.velocityX = 0;
        ball.velocityY = 0;
66
67
        text("Well Done!!", 150, 200);
68
69
70
```

## What's next?

In the next class, we will learn the very important concept of GAME STATE (mode).

### **Extend Your Knowledge:**

Bookmark following link: it will be a reference for stopSound() <a href="https://studio.code.org/docs/gamelab/stopSound/">https://studio.code.org/docs/gamelab/stopSound/</a>