

SCORING AND DEBUGGING



What is our GOAL for this MODULE?

wnat is our GUAL for this MUDULE!

We used our knowledge about debugging to clear the two bugs in the code and include a scoring system.

What did we ACHIEVE in the class TODAY?

- Learned tips and tricks to minimize errors and bugs in the code.
- Debugged the Bird's trajectory when shooting multiple times.
- Debugged the Bird's swings in rapid motion when it is reset.
- Learned to add the scoring system to the game.

Which CONCEPTS/ CODING BLOCKS did we cover today?

- Empty array.
- Scoring system.
- Matter.Body.setPosition(body, position).



How did we DO the activities?

1. Find the part of the code which is responsible for drawing the trajectory.

```
s Bird,s > *gBird
class Bird extends BaseClass {
constructor(x,y){
super(x,y,50,50);
this.image = loadImage("sprites/bird.png");
this.smokeImage = loadImage("sprites/smoke.png");
this.trajectory =[];
}

display() {
    //this.body.position.x = mouseX;
    //this.body.position.y = mouseY;

super.display();

if(this.body.velocity.x > 10 && this.body.position.x > 200){
    var_position = [this_body.position.y = this.body.position.y];
    this.trajectory.push(position);
}

for(var_i=0; i<this.trajectory.length: i++){
    image(this.smokeImage, this.trajectory[i][0], this.trajectory[i][1]);
}

for(var_i=0; i<this.trajectory.length: i++){
    image(this.smokeImage, this.trajectory[i][0], this.trajectory[i][1]);
}
}</pre>
```

2. Create an empty array whenever the space key is pressed.

```
platform.display();
    slingshot.display();
function mouseDragged(){
       Matter.Body.setPosition(bird.body, {x: mouseX , y: mouseY});
function mouseReleased(){
   slingshot.fly():
   gameState = "launched";
function keyPressed(){
    1f(keyCode === 32){
   bird.trajectory - []:
      slingshot.attach(bird.body):
async function getBackgroundImg(){
    var response = await fetch("http://worldtimeapi.org/api/timezone/Asia/Kolkata");
   var responseJSON = await response.json():
    var datetime = responseJSON.datetime:
                                                                               There is an available update.
    if(hour>=0600 && hour<=1900){
```

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3. Use **Matter.Body.setPosition** to position the Bird at the starting point to avoid the Bird swinging widely when attached to the slingshot.

```
sketch.js
                                Js Pig.js
JS sketch.js >
           pigs.uispiay();
 70
       pig3.score();
 71
           log3.display();
           box5.display();
           log4.display();
           log5.display();
 76
           bird.display();
           platform.display();
           //log6.display();
           slingshot.display();
       function mouseDragged(){
 84
           Matter.Body.setPosition(bird.body, {x: mouseX , y: mouseY});
       function mouseReleased(){
           slingshot.fly();
       function keyPressed(){
           if(keyCode===32)
           bird.trajectory=[];
         Matter.Body.setPosition(bird.body,{x:200, y:50});
           slingshot.attach(bird.body);
```



4. Add the score feature to the game to make it more interesting.

```
class Pig extends BaseClass {
       constructor(x, y){
         super(x,y,50,50);
         this.image = loadImage("sprites/enemy.png");
5
      this.remove=true;
      display(){
        if(this.body.speed < 3){
         super.display();
        else{
        World.remove(world, this.body);
15
         if(this.remove==true)
           score=score+50;
           this.remove=false;
20
```



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What's NEXT?

In the next class, you will be learning about real-time databases.

EXTEND YOUR KNOWLEDGE:

1. This document contains a detailed description of debugging tricks. You can explore it to learn more about it:

https://www.geeksforgeeks.org/debugging-tips-to-get-better-at-it/

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