To avoid me explaining things incorrectly, I will be posting the screenshots of every image of code that will be added to the textbook. Some parts are self-explanatory, some parts should be broken down. I will add a comment underneath an image of code that I think needs to be explained, or I don't know how to break that down, OR I just straight up don't know what this section of code does. If an image doesn't have a breakdown request, feel free to comment on it here down below if you still feel it's important to explain.

This will save time for pretty much everyone, if we get it right the first time. But will mostly be saving Tony editing time, so he doesn't have to make us go back and change finished parts of the written textbook.

Player setup variables (Basic Player Section 1: YouTube)-----

```
1 extends KinematicBody2D
   var state = "Idle"
 4 var sub_state = "Default"
5 var next_anim = ""
   export (String, "Right", "Left") var start_direction = "Left"
9 var gravity = 1100
11 export (float) var run_speed_max = 150
12 export (float) var run_speed_acceleration = 10
   export (float) var run_speed_deceleration = 9
15 export (float) var sprint_speed_max = 250
16 export (float) var sprint_speed_acceleration = 15
17 export (float) var sprint_speed_deceleration = 10
19 var sprint_stamina_cost = 0.3
21 onready var speed_max = run_speed_max
22 onready var acceleration = run_speed_acceleration
23 onready var deceleration = run_speed_deceleration
25 var velocity = Vector2()
```

Image:1

```
19 var sprint_stamina_cost = 0.3
21 onready var speed_max = run_speed_max
22 onready var acceleration = run_speed_acceleration
23 onready var deceleration = run_speed_deceleration
26 var deceleration_sensitivity = 1
30 export (float) var jump_force_preset = 200
31 onready var jump_force = jump_force_preset
32 export (float) var jump_duration_max = 1
33 onready var jump_duration = jump_duration_max
34 export (float) var jump_count_max = 1
35 onready var jump_count = jump_count_max
38 onready var stamina = stamina_max
39 export (float) var stamina_regen_amount = 1
41 var slope_run_angle = 35
42 var slope_sprint_angle = 45
43 var slope_slide_angle = 35
44 var current_slope_angle = 0
46 var direction = 6
```

Image:2

Part 2 (Basic Player Section 2: YouTube)-----

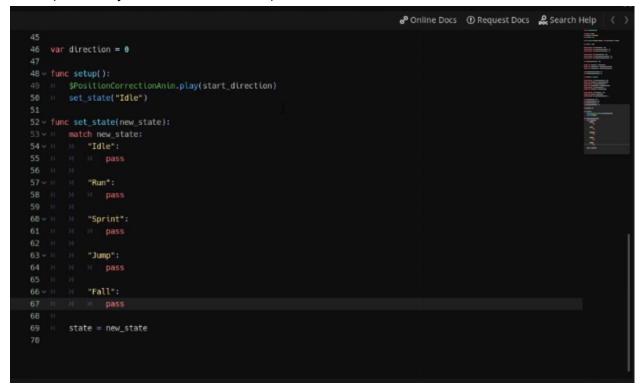


Image:1
Explain why its advantageous to use a Match statement here for animation states here:

Image:3

Image:4
Explain why we are using move_and_slide_with_snap here:
Slope_stop_check:

Image:5

Image:7

Image:8
Func turn():

Check_slope_angle is very word and math heavy, might need to break this down: rad2deg - radian to degree conversion within godot

Image:10

```
189 | 199 | func slope_stop_check(): ## | 192 | 193 | func state_check(): ## | 192 | 193 | func state_check(): ## | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194 | 194
```

Image:12

Image:13 (adding to previous Jump Code)

Image:14

Image:15
Explanation of func jump_movement:

Image:16
Adding jump conditions

Image:17 Adding sounds to our game

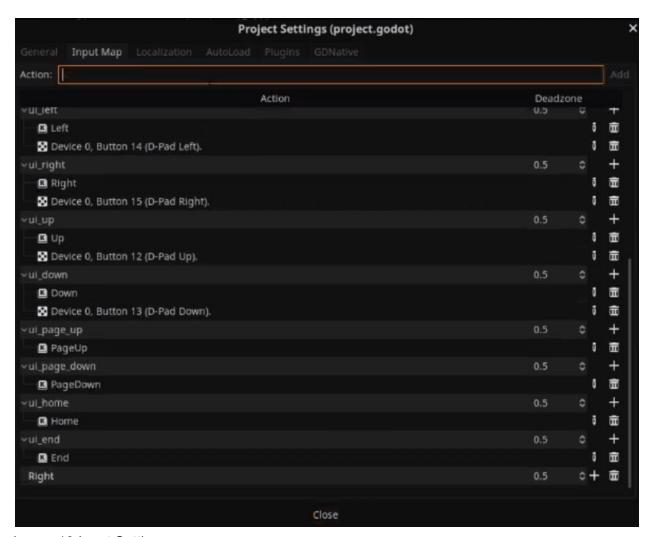


Image:18 Input Settings

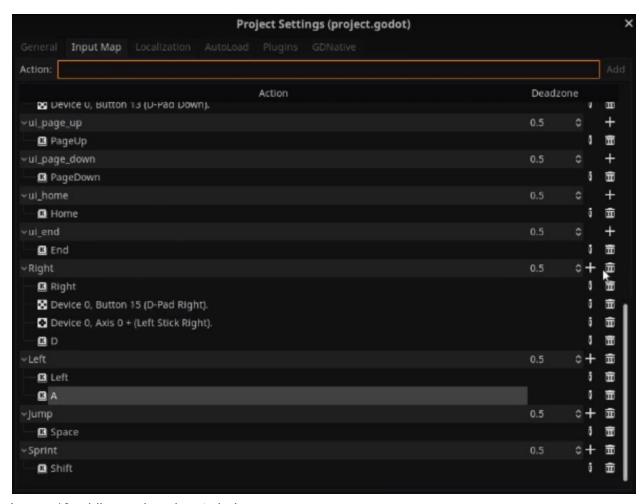


Image:19 adding various input choices

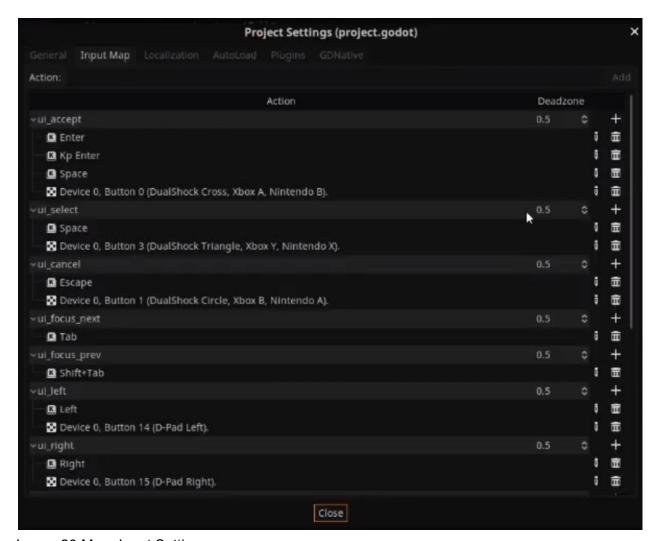


Image:20 More Input Settings

If I missed any code, Let me know, and I'll get those screenshots added. All these photos can be accessed in the Textbook_images folder. They are labeled "Player_Code(#)" [and InputSettings] based on the chronological order they will appear in the book.