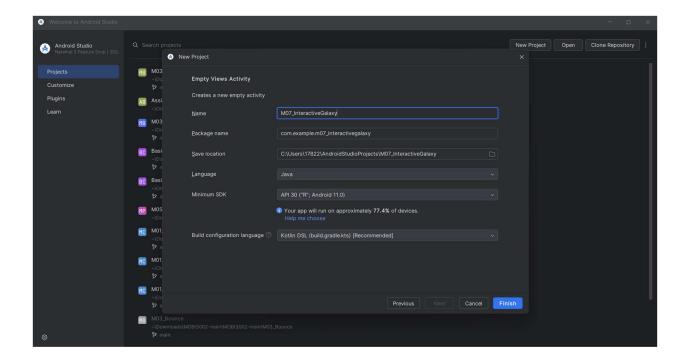
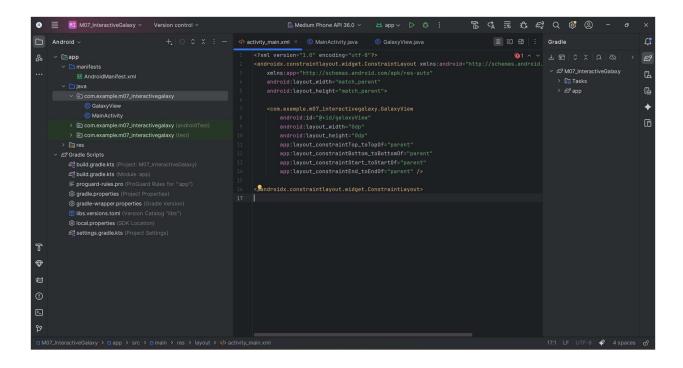
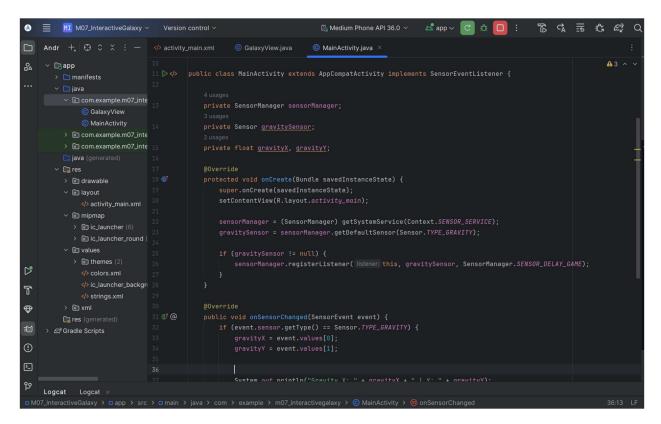
A7 - Sensors

Esraa Abdelmoein

2025-10-20







Gravity Sensor Setup (MainActivity.java)

This code registers the gravity sensor and updates the object's X and Y positions in real time. The values are used to simulate tilt movement inside the game

```
■ 10 20 :
                Android
                                                                                                                                                                                                                                     © GalaxyView.java × © MainActivity.java
                                                                                                                                                                                             public class GalaxyView extends View implements SensorEventListener {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A 25 ★ 2 ^

✓ 

☐ com.example.m07_inte

                                                                                                                                                                                                                             super.onSizeChanged(w, h, oldw, oldh);
                                                                                                                                                                                                                             paddleCenterY = h - paddleMarginBottom - paddleHeadRadius;
controlBandTop = h * 0.65f;

✓ 
iii layout

                                              > ic_launcher (6)
                                                     > ic_launcher_round (

✓ Image: Value of the valu
                                                       > 1 themes (2)

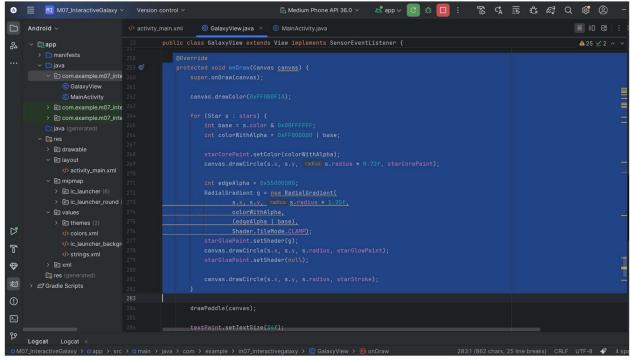
√> ic launcher backgr

⟨> strings.xml

                                                                                                                                                                                                                                int action = event.getActionMasked();
₩
                      > @ Gradle Scripts
                                                                                                                                                                                                                                                                   float minY = controlBandTop - 10f:
```

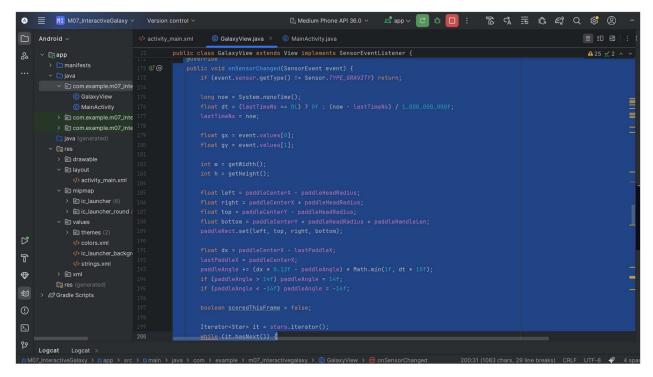
Touch Input Handling (GalaxyView.java)

This part of the code detects when the user touches or drags on the screeN. The paddle moves or new balls are created according to the touch actions



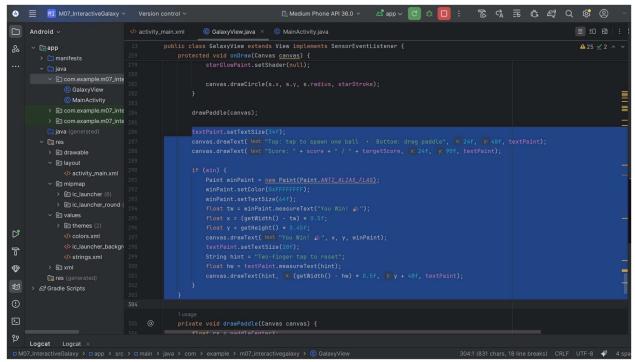
Drawing and Game Updates (GalaxyView.java)

This section draws the paddle, balls, and score on the canvas. It updates the positions continuously to create the animation



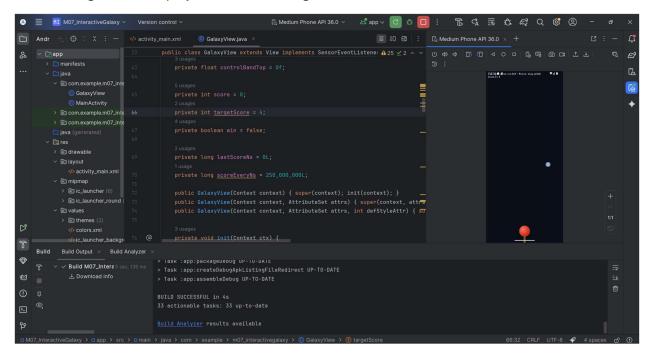
Gravity Sensor Handling (GalaxyView.java)

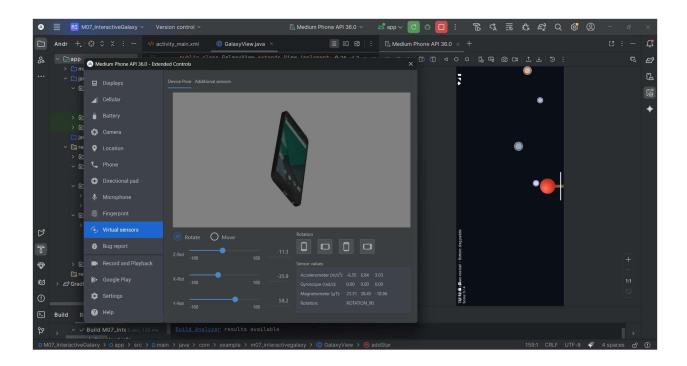
This part receives gravity sensor data and uses it to control the paddle movement in the game

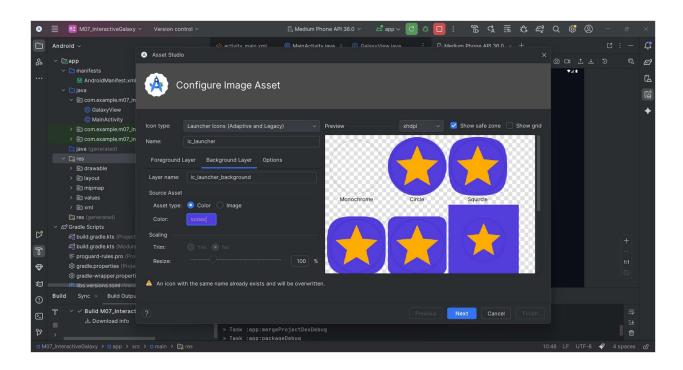


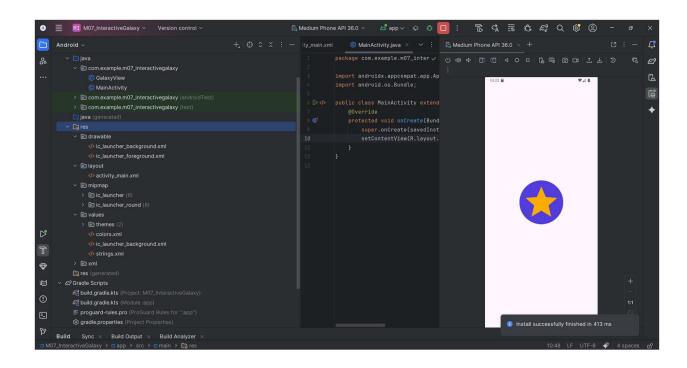
Scoring and Winning Logic (GalaxyView.java)

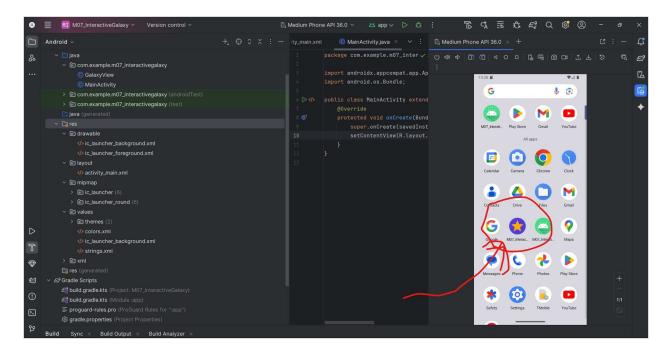
This part of the code increases the score each time the paddle hits a ball and displays a "You Win" message when the player reaches the target score

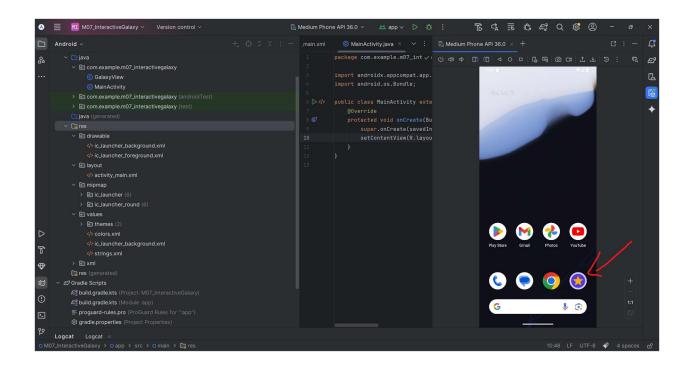


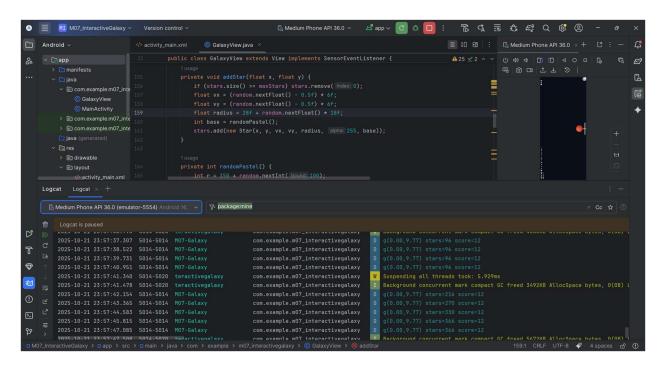


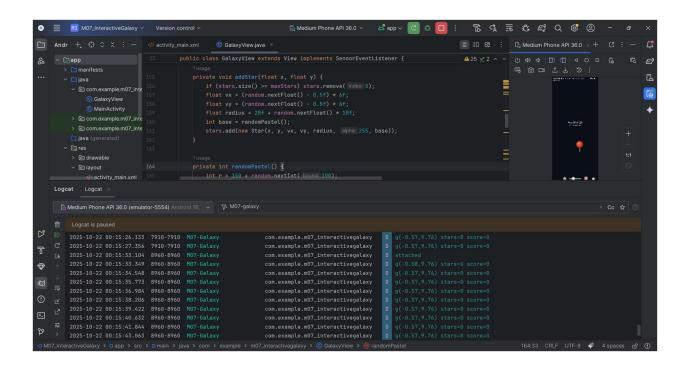


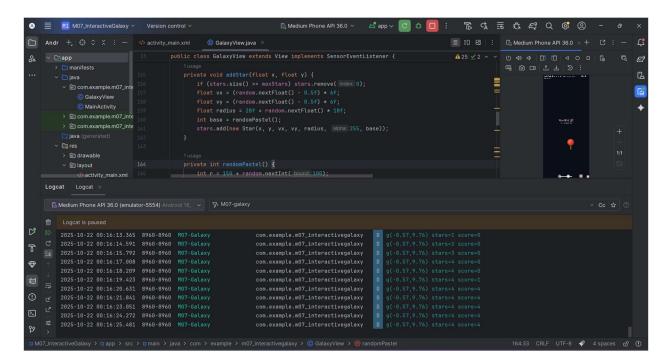












Logcat output confirming that the app runs successfully without any errors