

COMP 160 Object-oriented Programming

Exercise 2: Simple Flappy Bird

- Draw Initial Scene: Use StdDraw methods to draw bird as a circle and obstacles as rectangles on the canvas
- Implement Bird Movement: Use user input ("space") to control the bird's movement. Update the bird's position accordingly.
- Handle Collision Detection: Check for collisions between the bird and obstacles. End the game if a collision is detected.

```
Standard Draw
 double fallingConstant = 25:
 int vertSpeed = 0;
 int jumpSpeed = 30;
 int ballSize = 10;
 double x = 10, y = 200;
double vx = 20:
 double dty = 0.1, dtx = 0.05;
int canvas width = 800:
 int canvas height = 600:
 StdDraw.setCanvasSize(canvas_width, canvas_height);
StdDraw.setXscale(8, canvas_width);
 StdDraw.setYscale(0, canvas_height);
StdDraw.enableDoubleBuffering();
                                                              Game Over!
double[][] rectangles = {
         {300, 160, 50, 160},
        {300, 490, 50, 110}.
        {650, 415, 50, 185},
        {650, 85, 50, 85}
};
```