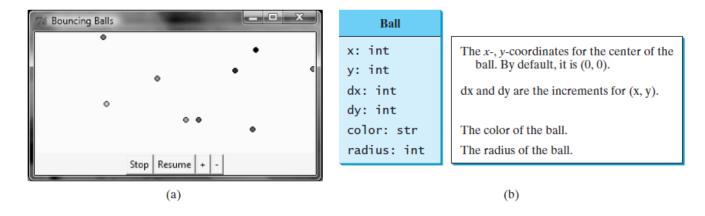
The program enables the user to click the and buttons to add a ball or remove a ball from the canvas, and click the *Stop* and *Resume* buttons to stop the ball movements or resume them.

Each ball has its own center location (x, y), radius, color, and next increment for its center position, dx and dy.

You can define a class to encapsulate all this information, as shown in Figure below b)



Initially, the ball is centered at (0, 0), and dx = 2 and dy = 2.

In the animation, the ball is moved to (x + dx, y + dy). When the ball reaches the right boundary, change dx to -2. When the ball reaches the bottom boundary, change dy to -2. When the ball reaches the left boundary, change dx to 2. When the ball reaches the top boundary, change dy to 2. The program simulates a bouncing ball by changing the dx or dy values when the ball touches the boundary of the canvas.

When the + button is clicked, a new ball is created. How do you store the ball in the program? You can store the balls in a list. When the - button is clicked, the last ball in the list is removed.