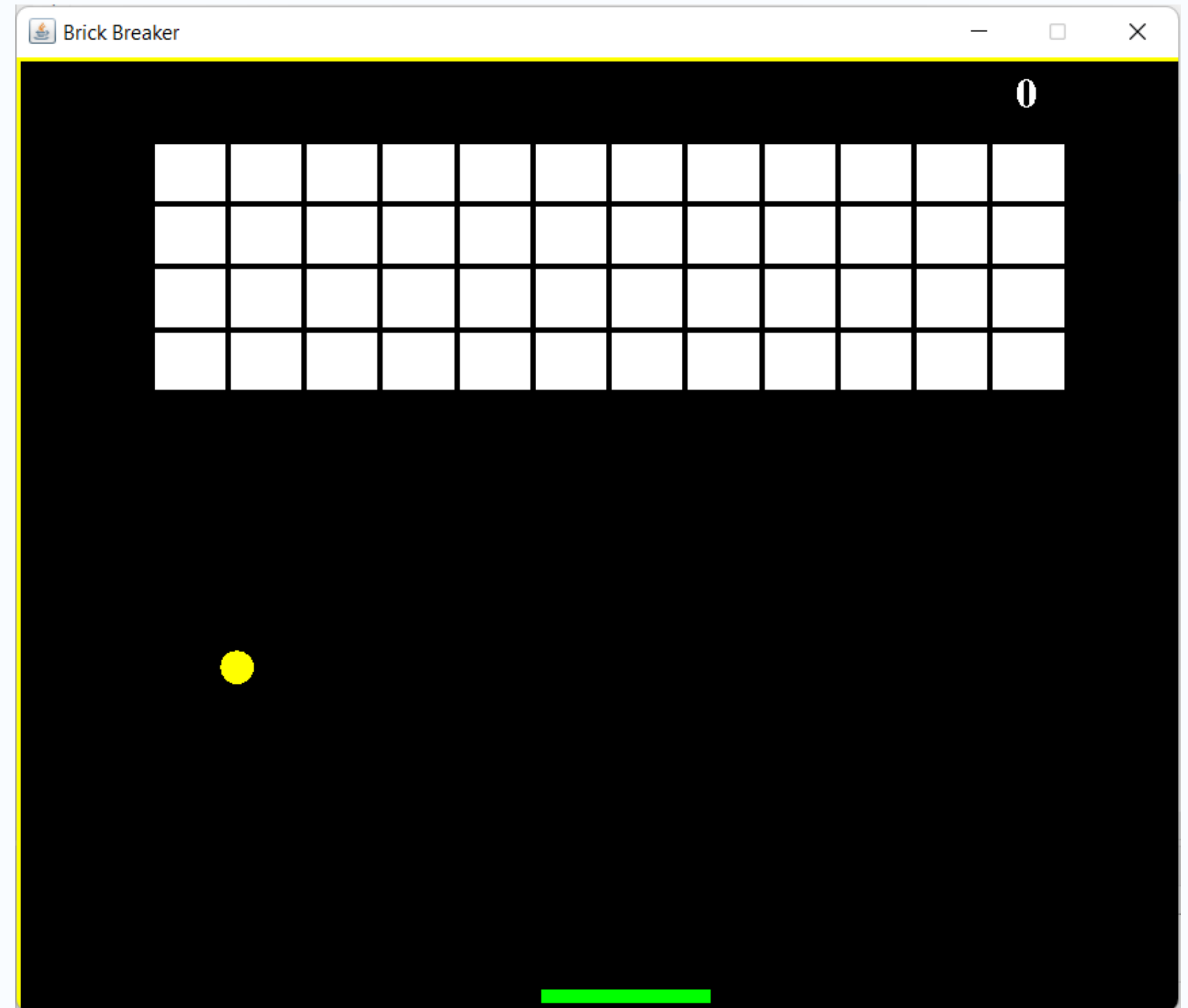


BRICK BREAKER GAME



Using Java

BRICK BREAKER



A JAVA GAME DEVELOPMENT PROJECT

ENVIRONMENT USED

Java SE Development Kit 17.0.1


Apache NetBeans 12.5

TECHNOLOGIES LEARNT

JAVA

Game Development

INTRODUCTION



Game Development is one of the fun ways to learn technology. It's not that easy but if you want to develop a game then this information is for you. The article focuses on the basic implementation steps for the development of a simple game for beginners. It will help to accelerate your practical understanding. This game development project will give you java knowledge with integration and basic animation techniques. You can find this link for more game development courses and projects. We always help you for better understanding and knowledge.

PROJECT DESCRIPTION

Some of you already know about the brick breaker game. It has a small ball that hits the bricks with the help of a little platform at the bottom. The player uses this platform to bounce the ball. The more you break the bricks, the more you score. If you miss the ball to bounce then game over. This project is for beginners and gives a basic overview of the game. It will definitely help you with your first-year project or as a fun purpose implementation. The following are the milestones of the project implementation.

- Display bricks and disappear after hitting the ball.
- Small platform moving left and right
- The ball must bounce after hitting brick and platform at the bottom
- Score display

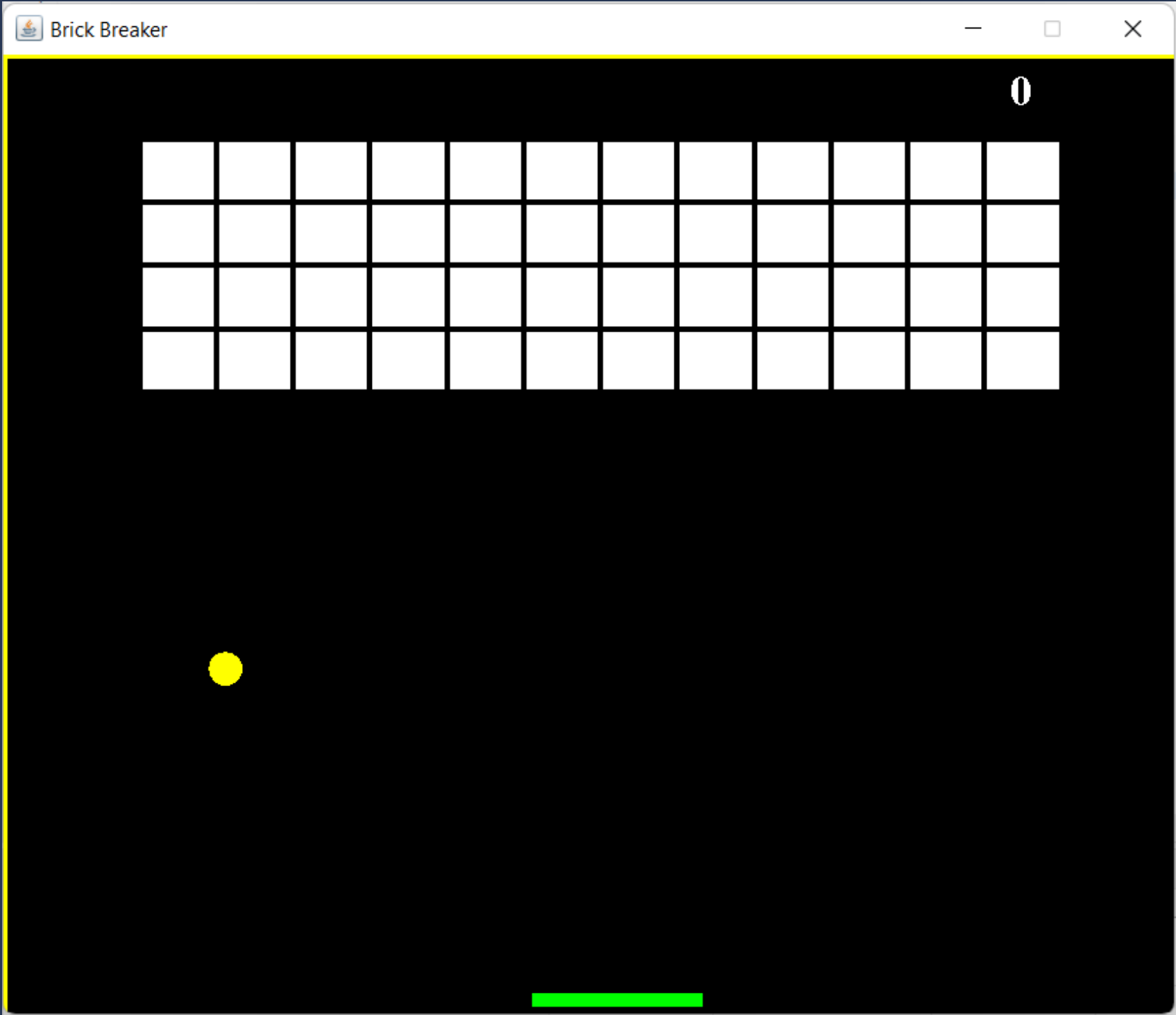
PROJECT IMPLEMENTATION

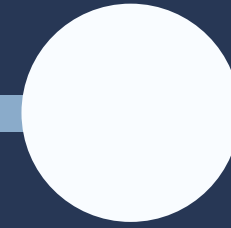
- This is a java project so you can use the IDE like eclipse and Net beans etc.
- Initially, you have to create a frame for the game. For that create a class called Main which contains the main method. Then create boundaries by assigning the dimension. Along with this use JFrame which is a built-in class for the minimize and close functions. Import JFrame package also.
- Next, create a Run game class and extend it with JPanel. Import JPanel package also.
- Use keylistener and action listener packages. KeyListener for moving the small platform with arrow keys and ActionListener for moving the ball. Add an unimplemented method for it.
- Mention the initial location of the slider or platform along with ball location and direction with x and y axis.
- Then create Rungame() constructor for calling the methods for the timer, keylistener, and many more.

- Create a function shapes() which include the graphics of ball, bricks, and slider. It also includes a background color.
- Use setColor() for background color and fillRect() for boxes. Continue this for all other shapes.
- Then assign the limitations in key events for the movement of the slider so that it does not go out of the border.
- Enter code in actionPerformed event for the movement of the ball. You can use the if a condition for that if the ball collides with boundaries or sliders, it will bounce.
- The next step is to create bricks and actions related to bricks. Create a Brick class. Insert condition in the function so that the call interacts with the brick boundary then it will bounce along with the vanishing brick. Don't forget to create a background colored border to the bricks for an individual break.
- Create a loop for calculating score after every interaction of brick and ball..
- The final step is what makes you fail and win the game. If all bricks disappear then the player Won the game by displaying a title as WON!!!. And if the ball touches the lower boundary the player fails with the display of GAME OVER.

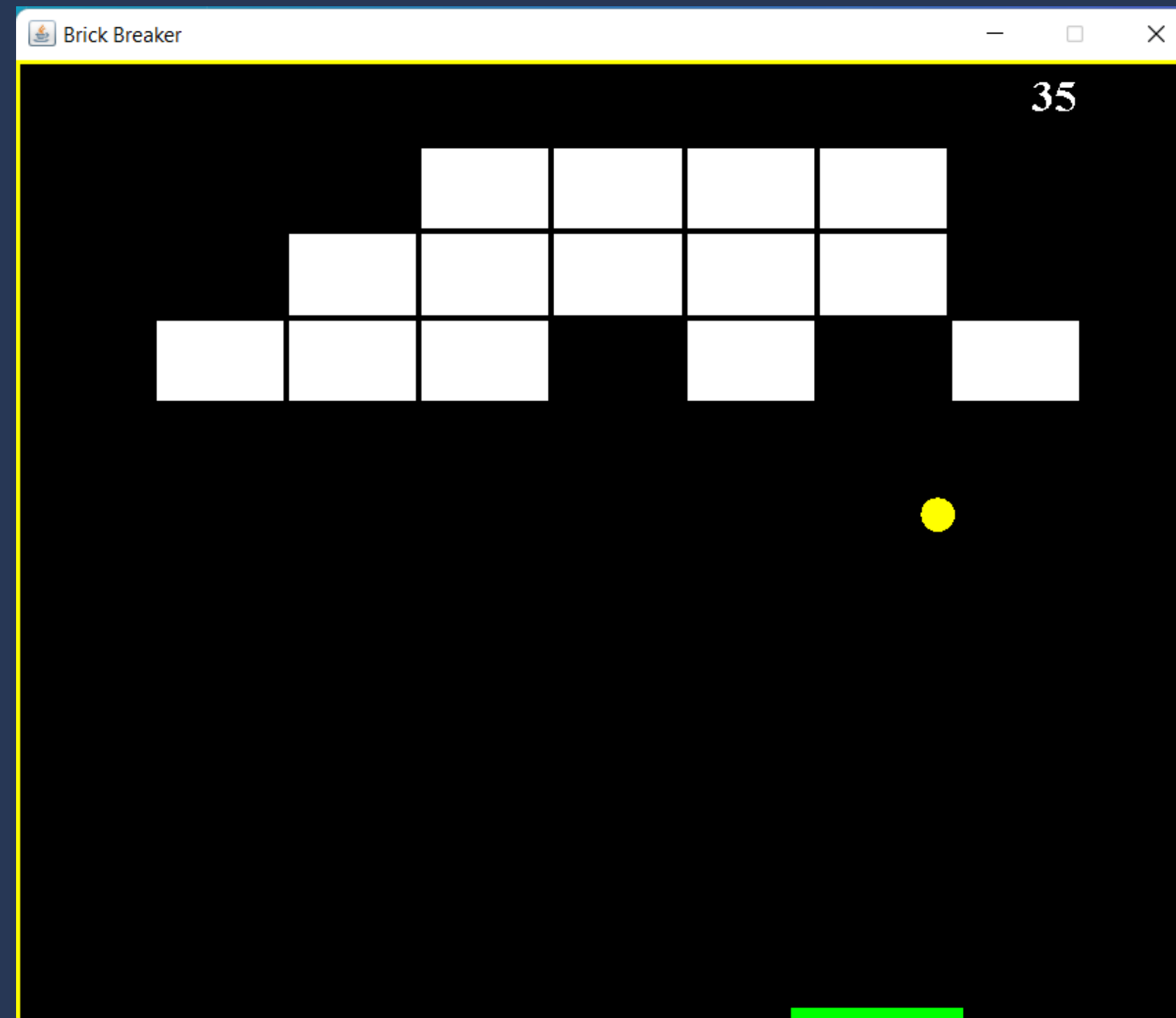
OUTPUT SCREEN

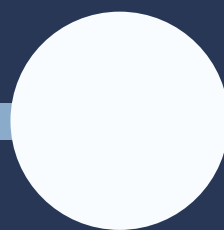
START





IN BETWEEN





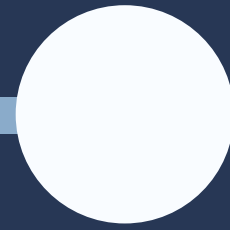
GAME OVER

Brick Breaker

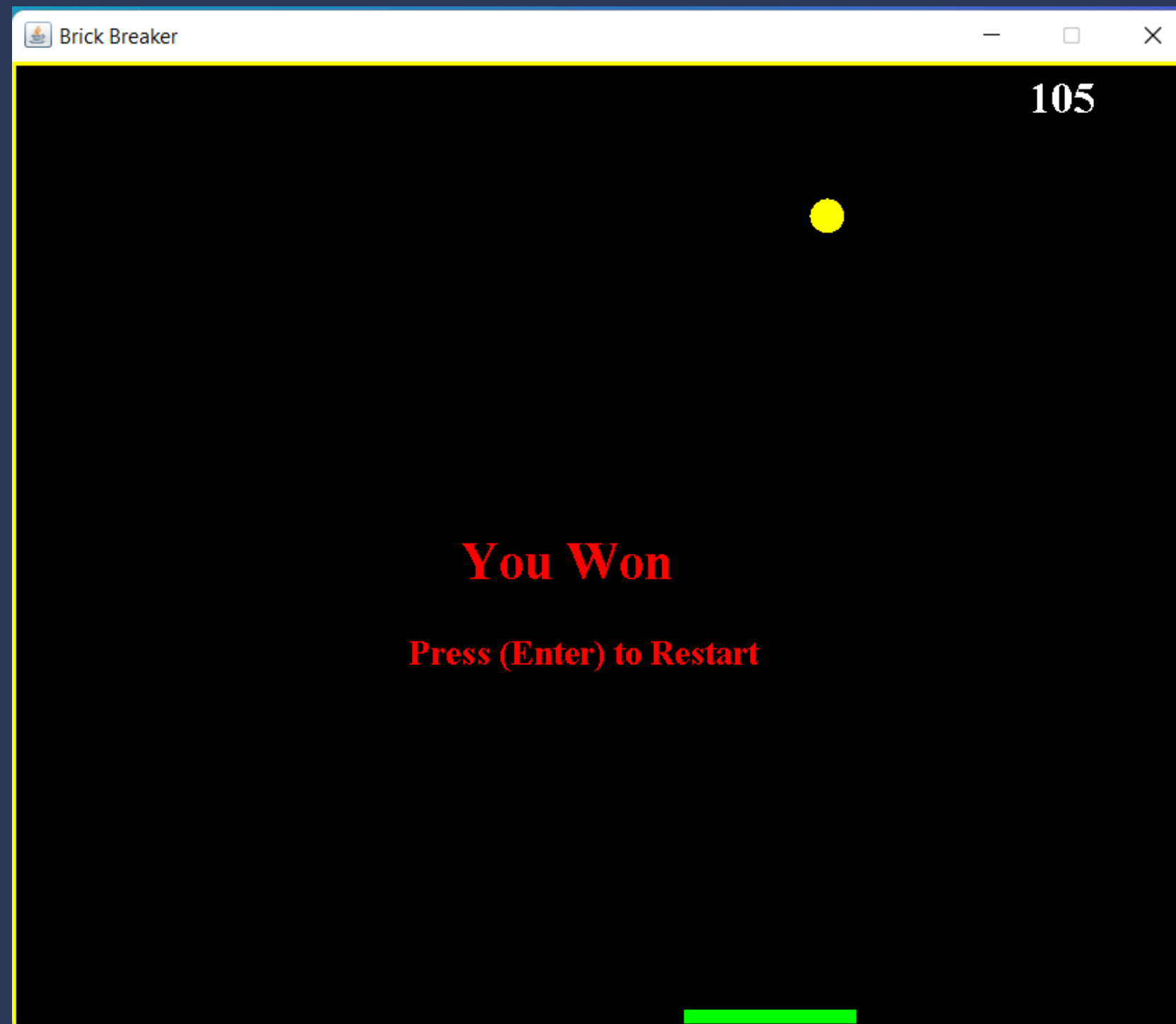
25

Game Over, Scores: 25

Press (Enter) to Restart



GAME WON!



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