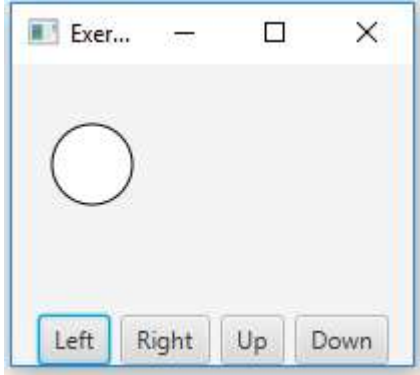


WORKSHEET – In class on week 5 day 2

1	<p><u>Move the Ball</u></p> <ul style="list-style-type: none">• Write a program that moves the ball in a pane. You should define a pane class for displaying the ball and provide the methods for moving the ball left, right, up, and down, as shown below.• Check the boundary to prevent the ball from moving out of sight completely.• <u>Hint:</u> Imitate ControlCircleWithMouseAndKey. However, your program needs to respond to the clicks of the four buttons only. ControlCircleWithMouseAndKey also responds to mouse clicks and key strokes. 
2	<p><u>Calculate investment value</u></p> <ul style="list-style-type: none">• Write a program that calculates the future value of an investment at a given interest rate for a specified number of years. The formula for the calculation is: $\text{futureValue} = \text{investmentAmount} * (1 + \text{monthlyInterestRate})^{\text{years} * 12}$• <u>Hint:</u> Imitate LoanCalculator.

THE END