Start with a new sketch that contains setup() and draw() methods. Ask your teacher if you don't know how to do this. The suggestions under each step should help you with your program.

1.Make a canvas for your game.

```
size(width, height) //in setup method background(red, green, blue) //in draw method
```

2. Draw a ball on the screen.

```
ellipse(x, y, width, height) //in draw method
fill(red, green, blue) //in draw method
stroke(red, green, blue) //in draw method
```

3. Make the ball move across the screen (left to right).

//make a variable for the ball's X position and change it in the draw method.

4. Change the speed of the ball.

//make a variable for the speed of the ball in the X direction (from left to right).

//changing this variable should change the speed of your ball

5. Make the ball bounce off of the walls.

```
if(x > width){
     xSpeed = -xSpeed;
}
```

6. Do the same in the Y (up and down) direction.

height

7. Add a background image for your game.

8. Draw a paddle at the bottom of the screen

```
rect(x, y, width, height);
```

9. Make the paddle move over and back with the mouse.

```
mouseX
```

10. Make the ball change Y direction when it hits the paddle. Figure it out by yourself, or use this method:

```
boolean intersects(int ballX, int ballY, int paddleX, int paddleY,
int paddleLength) {
    if (ballY > paddleY && ballX > paddleX && ballX < paddleX +
paddleLength)
        return true;
    else
        return false;
}</pre>
```