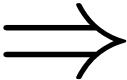
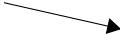


The diagram illustrates the semantic evaluation of the code snippet $x = 2;$ followed by $y = x;$. It is divided into three parts: 1. A light blue box on the left containing the code. 2. A large black arrow in the middle pointing from the code box to the right. 3. A diagram on the right showing the state after evaluation. It features two labels, x and y , stacked vertically. From each label, an arrow points to a small white box with a black border that contains the number 2. This represents the memory state where both variables x and y now hold the value 2.

$$x = 2;$$
$$y = x;$$
 x 

2

 y 