CSCA08H Worksheet: Variable Assignment Statements

(a) Consider this code:	
k = 5	
Write an assignment statement that creates a new variable j that refers to three times k 's value:	
j = 3 * k	
(b) Consider this code:	
x = 4 $y = 5$ $x = 2$	
After the code above is executed, to which value does x refer?	
After the code above is executed, to which value does y refer?	
(c) Consider this code:	
x = 4 y = x + 2 x = y + 1 Draw the memory!!!	
After the code above is executed, to which value does x refer?	
After the code above is executed, to which value does y refer?	
Swapping variable values An extra exercise to try at home.	
Assume that variables a and b have been assigned int values. Write code to swap which values a and b refer to: after your statements are executed, a should refer to the value that b used to refer to and b should refer to the value that a used to refer to. Hint: use a third variable	

2.

Start with this state of memory:	a <u>id1</u>	id1:int
	b <u>id2</u>	id2:int

Once you have written the code, trace your code using the memory model to confirm that it correctly swaps the values: