

## PP Task 3.1 Code Tracing Additional Questions

Name: Replace with your name

- How does *Code Sample 3* illustrate the importance of sequence?
- The code `price = 10;` is an example of which kind of programming statement?
- What actions does the computer perform when it executes the statement `b = c;` from *Code Sample 4*? (**Hint:** Think in terms of what has been taught in the lectures and notes. You do *not* need to research what happens at the hardware level as that is outside the scope of the unit.)
- What actions does the computer perform when it executes the statement `a = b - a;` from *Code Sample 4*?
- How would the value of variable `i` change in the statement `i = i + 1;`?
- What are the value and type of the following expressions (given the associated variable values)? Treat each row independently. Do not worry if Word autocorrects "straight quotes" to "smart quotes"; we will know what you mean. But do correct its auto-capitalisation of primitive type names. (**Hint:** You may wish to review the way literal values of different types are expressed in Java.)

Variable Values	Expression	Value	Type
	4		
	4.5		
	"Hey you"		
	$1 + 3 * 2$		
<code>a = 1; b = 2;</code>	<code>a + b</code>		
<code>a = 3;</code>	<code>2 * a</code>		
<code>a = 2.5; b = 2;</code>	<code>2 * a + b</code>		
<code>a = 2.5; b = 2;</code>	<code>a + 2 * b</code>		
<code>a = 1; b = 1; c = 6;</code>	<code>(a + b) * c</code>		
<code>a = 'i';</code>	<code>"Michael" + a + "fox"</code>		
<code>a = "Doug"</code>	<code>a + " Jones"</code>		
<code>a = 1128;</code>	<code>"THX" + a</code>		

- What is the most appropriate type to store the following?

Data	Type
Number of students in an online chat room	
A person's name	
Average age of a group of people	
A temperature in Celsius	
The name of a unit	
Points scored in a soccer game	
A student's ID number	
A person's phone number, including area code	
The cost of an item in a shop	

