

Java Programming for Beginners

Lab Exercise 2

1) For each statement below, record what you expect the result to be. Then, write Java code to compute the result. Were you correct?

Statement	Expected Value	Computed Value
<code>f = 5 * 7 / 3</code>		
<code>float f = (5 * 7) / 3.0f</code>		
<code>int x = 5 + 'a'</code>		
<code>char c = java.lang.Math.min('a', 'A')</code>		
<code>int x = 2147483647 + 1</code>		

2) Java primitives have fixed sizes in memory. As such, a primitive has a minimum and maximum value. What are the minimum and maximum values for the following types? Where did you find this information?

Record the number of bits in memory assigned to each type. What is the relationship between the values in this table?

Type	Size in Memory	Min-Value	Max-Value
int			
boolean			
char			
String			

