Type: FMB  
1. What are variables' values after the following code segment is executed?  
long result = 6 + 7 / 3;  
  
Pay attention to how to specify a long value.  
[8L, 8l]  
  
Type: FMB  
2. What are variables' values after the following code segment is executed?  
double amount = 7 \* 6;  
  
Pay attention to how to specify a double value.  
[42.0]  
  
Type: FMB  
3. What are variables' values after the following code segment is executed?  
int k = 2 / 8;  
  
[0]  
  
Type: FMB  
4. What are variables' values after the following code segment is executed?  
int n = 6 % 7;  
  
[6]  
  
Type: FMB  
5. What are variables' values after the following code segment is executed?  
double m = 2.0 / 7 \* (99 - 4);  
  
[27.14]  
  
Type: FMB  
6. What are variables' values after the following code segment is executed?  
int quantity = 6;  
boolean f = 2 <= quantity;  
quantity: [6]f: [true]  
  
Type: FMB  
7. Specify the output and the variables' values after the following code segment is executed.  
  
int index = 5;  
if (index < 2)  
{  
 System.out.print(index);  
 index = index - 1;  
}  
If there is no output, please specify "nothing" (no quotes) in the blank for the output.  
output of the code: [nothing]index: [5]