Q1:

Final:

Final is a keyword to describe class/method/data.

For data, if it is described by final, means the value of this data cannot be changed. Others can only use this data.

For method, if it is described by final, means this method cannot be overridden by any other classes.

For class, if it is described by final, means this class cannot have a child class, no class can extend from this class.

Finally:

Finally always appear with try-catch or try, that means it always appear in exception handling process.

So if it is “try+catch+finally”, means the code in finally() block will execute after the code in try() block and catch() block finish executing.

If it is “try+finally”, means the code in try() block will execute first, then whether there is a exception appear after executing the try() block or not. The finally() block will continue execute. In others words, the execution of the code in finally() block won’t be influenced by exception.

Q6:

The output is 6.

First, the output of “b.getAddCount()” is 3, because when using the method “addAll”, the “addCount = addCount + list.size()”, the value of “addCount” is 0, and the value of “list.size()”

is 3, so after using “addAll” method, the value of “addCount” changed to 3. And “b.getAddCount” will return the value of “addCount”.

Second, the output of “b.getI()” is 3, because in class B, the value of “i” is defined as 3, and class B is extended from calss A, means the method “getI()” in class B is as same as the method in class A. so the method “getI()” in class B will return the value of “i” in class B, so “b.getI()” will return the value 3.

So the output is 3+3=6.