Worksheet: Final Review 3

1.	Write a class named	SomeClass	according to	the following	specifications.
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- two private integer fields: one named **a**, the other named **b**.
- a constructor that takes in two integers and uses these to set a and b, respectively.
- an accessor method, named getA, that returns the value stored in field a.
- a mutator method, named **setB**, that can be used to set the value of **b**.
- a method, named getC, that returns the sum of field a and field b.

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•	has no other	fields or	' methods	other than	those	specified above	٠.

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Cons	why this statement will not compile: SomeClass sc = new SomeClass(); sider the following code segment. SomeClass sc = new SomeClass(2,3); sc.setB(4); System.out.println(sc.getC() - sc.getA()); t is the output of the above code segment?
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- is a subclass of SomeClass that was written for the previous question.
- contains a private field of type double.
- has a constructor that takes in two int and a double, and uses these to set fields
 a and b of the superclass, and the local double variable, respectively.
- an accessor method, named getD, that returns the value stored in field d.

•	has no other fields or methods other than those specified above.

a) Consider the following code segment.

```
SomeClass soc = new SomeOtherClass(1, 2, 3.0);
System.out.println(soc.getD());
```

Explain the error in the code. Is the error a compile-time or run-time error?

b) The following method is added to SomeClass class.

```
public double getD() {
  return (double) a / b;
}
```

What is the output of the code segment in part (a) after the addition of the above method to SomeClass?