Test Strategy for Ship Class:

There are five attributes in Ship class. shipName is String type and xPos,yPos,noOfHitsMade & noOfHitsNeeded these four are int type. In default constructor, no values are added.

Test 1

With Default Constructor

Test Data:

- No Data

Expected Rersults:

- shipName: “ ”
- xPos: 0
- yPos: 0
- noOfHitsMade: 0
- noOfHitsNeeded: 0

Actual Results:

We can see that,expected and actual results are same.

With Non-default constructor:

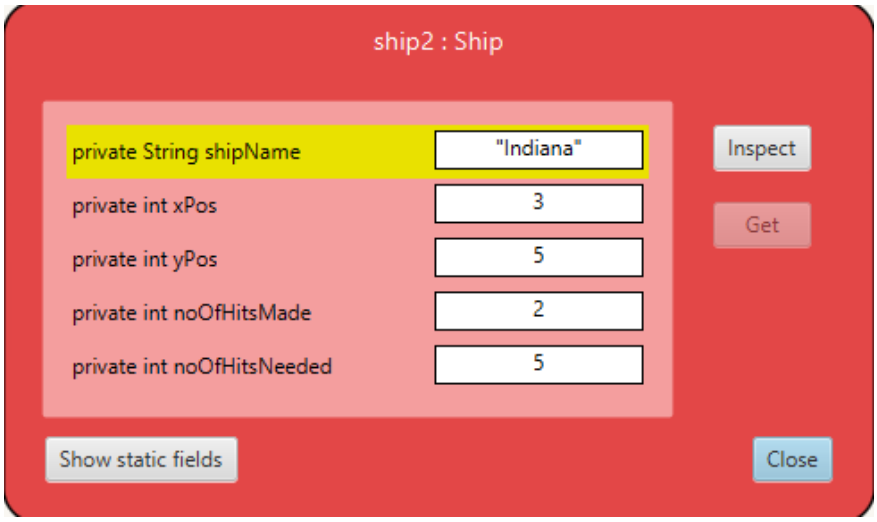
Test Data:

* shipName: “ Indiana”
* xPos: 3
* yPos: 5
* noOfHitsMade: 2
* noOfHitsNeeded: 5

Expected Rersults:

* shipName: “Indiana”
* xPos: 3
* yPos: 5
* noOfHitsMade: 2
* noOfHitsNeeded: 5

Actual Results:



We can see that,expected and actual results are same.

Negative Test:

Test 2

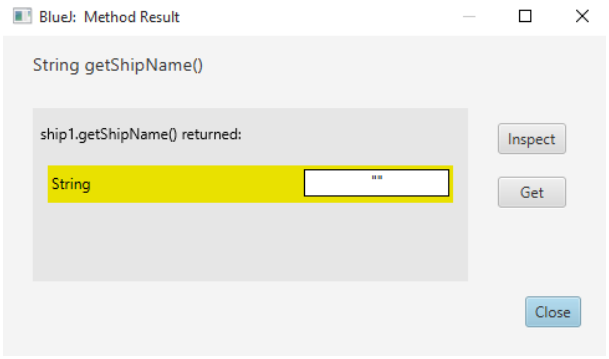
Test Data:

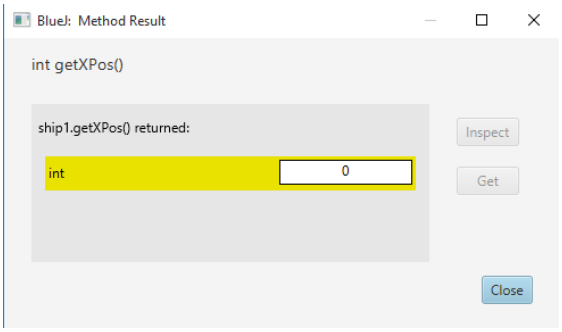
- shipName: 1
- xPos: “a”
- yPos: “b”
- noOfHitsMade: “c”
- noOfHitsNeeded: “d”

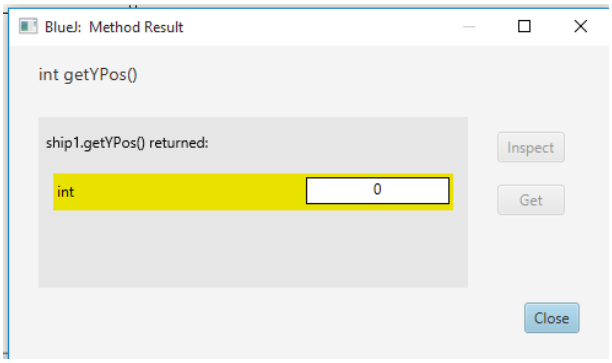
As it can not find the given Symbol,object can not be added.

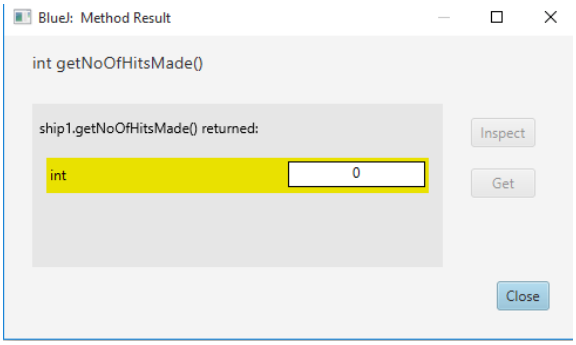
Test 3

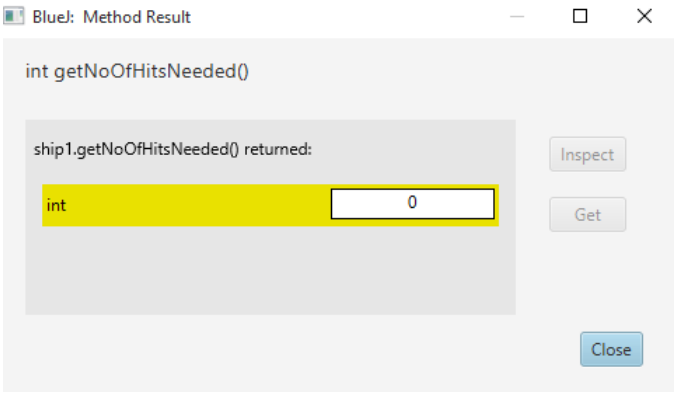
For negative test,as no attributes are being added, get() method will be Zero(0).



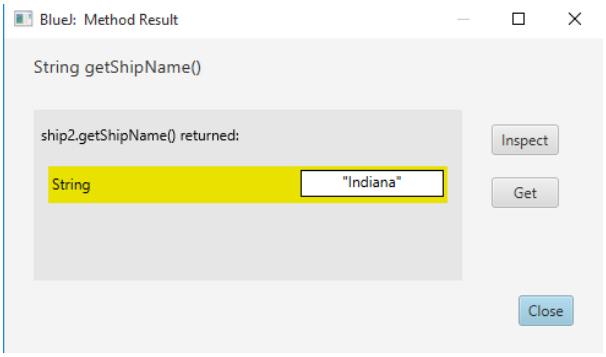


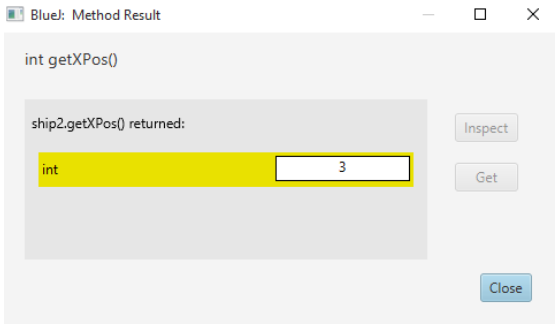


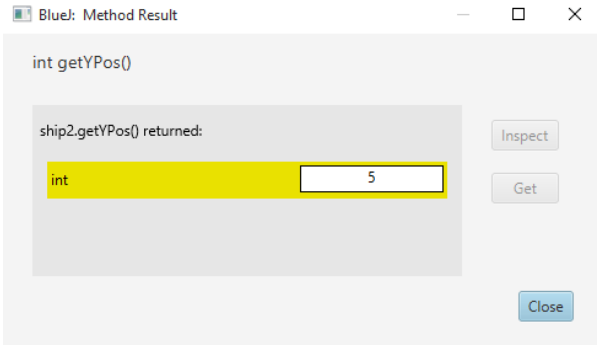


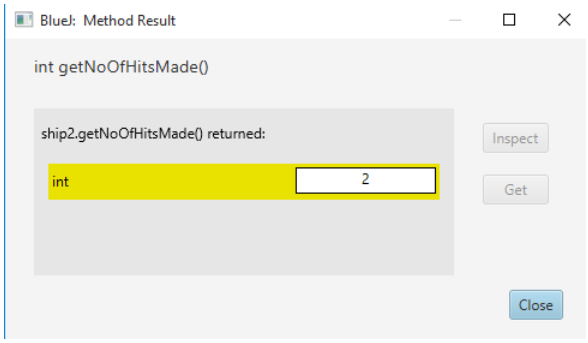


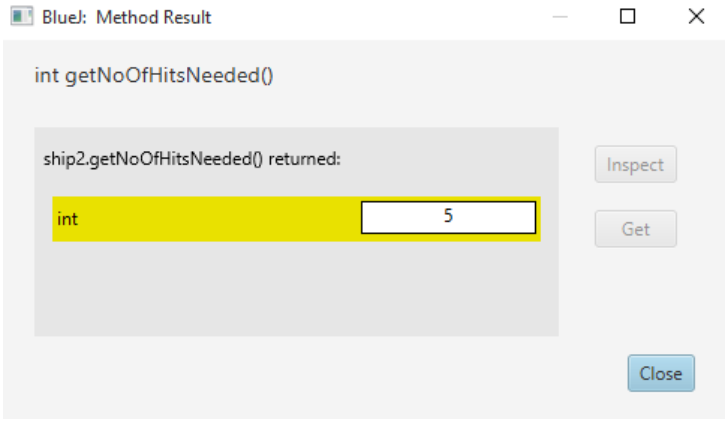
When the positive tests are done,then all the attributes are added.





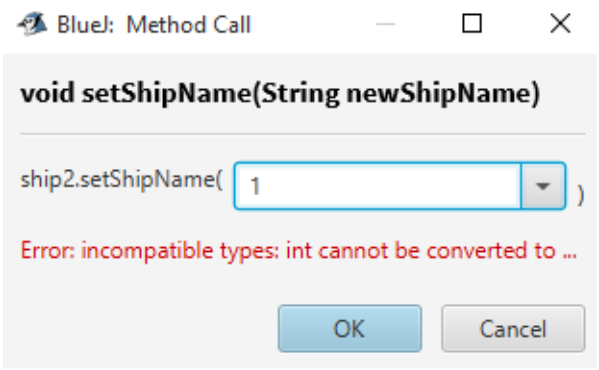


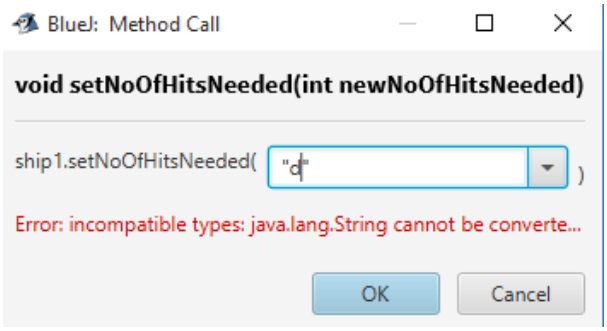




Test 4

In negative test,while working with set() method,it will show error.


BlueJ: Method Call
void setShipName(String newShipName)
ship2.setShipName(1)
Error: incompatible types: int cannot be converted to ...
OK
Cancel


BlueJ: Method Call
void setNoOfHitsNeeded(int newNoOfHitsNeeded)
ship1.setNoOfHitsNeeded("d")
Error: incompatible types: java.lang.String cannot be converte...
OK
Cancel