

Learner:

Superhero:

JAVA CHECKLIST

How to create classes	Y/N
I can create Instance variables and am able to to use another class type variable in another class	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I am able to create constructors and understand what a constructor does	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to create setters and getters	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know why I am creating setters & getters (ie. I understand encapsulation?)	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to create a toString() function	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know what a toString() function does	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I can add other necessary functions for the class and am able to take in other class parameters e.g testFunction(Driver D, String s)	Y
If I don't understand above, I have already asked for help, and I still don't understand	Y
How to call the class Object	
I have the ability to call created class objects e.g Car c = new Car()	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I have the ability to add one class object to other new class object e.g Driver D = new Driver(c, name)	Y
If I don't understand above, I have already asked for help, and I still don't understand	N

Other OOP Concepts	
I understand Polymorphism	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to use Polymorphism	N
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how encapsulation works	N
If I don't understand above, I have already asked for help, and I still don't understand	N
I understand how interfaces and Abstract classes work	Y

If I don't understand above, I have already asked for help, and I still don't understand	N
I understand how to use interfaces and abstract classes	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I understand how Inheritance works	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to use Inheritance	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to read and write to CSV	N
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to use ArrayLists	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to use Arrays	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I understand what Overriding	N
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to override methods	N
I understand what Overloading is	N
If I don't understand above, I have already asked for help, and I still don't understand	N
I know how to overload methods	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
Errors and Debugging	
I have the Ability to understand what the errors mean when shown on the terminal - e.g can not find symbol, NullPointerException, IndexOutOfBounds etc, if not, I google and understand what the errors mean	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I have the Ability to use System.out.println to debug e.g printing out the contents of the variable in middle of code to see if the variable is holding the expected value	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I understand how to use a try catch flow to handle exceptions	Y
If I don't understand above, I have already asked for help, and I still don't understand	N
I constantly compile my code to see if I have errors, eg. after every piece of logic I write, or after each variable or loop.	Y
I know how to use the main function in a class to test the functionality of the class	Y

Please note that the below checklist needs to be filled by a **Superhero checklist**. This follows [Feynman Technique](#). Practicing this will improve your understanding of concepts and also improve your abilities to communicate better.

Super hero soft skills checklist	Y/N
I am able to help my peers when asked for help with patience	Y
I was able to guide (not give solution) my peers with debugging code, ie improving my debugging skills	N
I was able to explain OOP concepts building my understanding as well	N
I know how to create setters and getters	Y
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