

# Module 2 : Anatomy of a Class & Interface, Annotations

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## Assignment

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# Assignment

- 1) Look at the class module2.SuperStudy. (Download Link: [https://edureka.wistia.com/medias/ruof9564jc/download?media\\_file\\_id=157106981](https://edureka.wistia.com/medias/ruof9564jc/download?media_file_id=157106981))

- a. What is the problem?
- b. How can we rectify the problem?

- 2) Create an abstract base class Quadrilateral.

- a. Derive the following classes – Square, Rectangle and Parallelogram.
- b. The base class should have the following attributes – base (Integer), height (Integer).
- c. The base class should have the following methods – area, getter and setter methods for the attributes.
- d. The base should have default and parameterised constructors.
- e. Can a Square be modelled as a Rectangle?

- 3) Expand the example of AbstractSearch class to IntegerSearch and StringSearch classes.

```
public abstract class AbstractSearch {  
    public abstract boolean search(Object [] obj_list, Object obj);  
}
```

- 4) Write a class to find integers from an array of integer based on the given input.

- a. Scan the whole input list to find matches.
- b. When the integer is found a listener would be informed and the listener will print a message saying the number and at what index it is found.
- c. The print message should not be hardcoded.