

Module 2 : Anatomy of a Class & Interface, Annotations

Assignment

edureka!

edureka!

© Brain4ce Education Solutions Pvt. Ltd.

Assignment

- 1) Look at the class module2.SuperStudy. (Download Link: https://www.edureka.co/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.