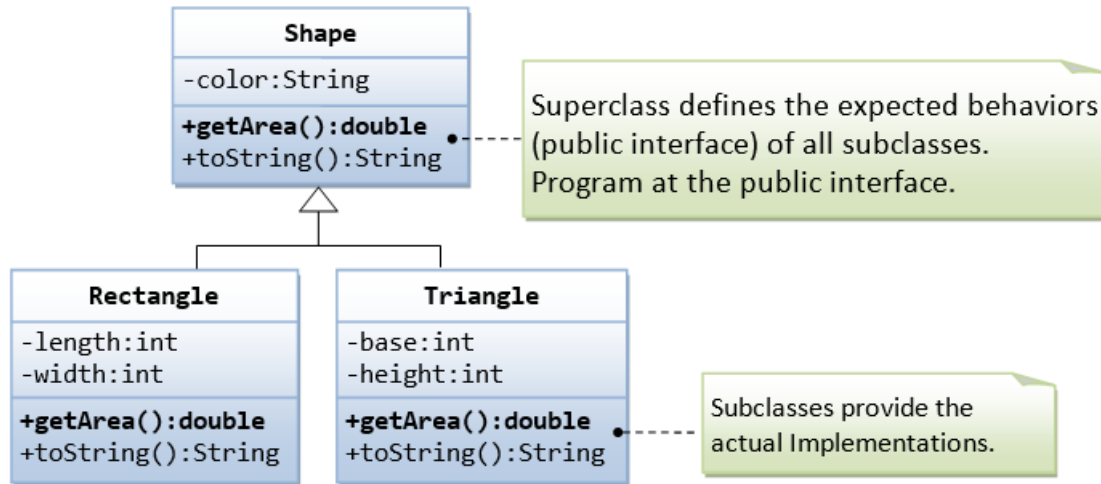


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Practical Assignment 1
Semester 8

1. Write a Java Program for the following UML class diagram Show the use of Inheritance, Polymorphism, Upcasting and Downcasting features of Java



<https://github.com/MaitrayeeK/BasicJava/tree/master/src/basicjava>

2.Design and create a java class for address book object that contains a person's name, home address and phone number, business address and phone number, and numbers for their fax machine, cellular phone, and pager. Write a java GUI application using swing to add, edit,delete and find the address records from the collection of Address objects. Don't use any database to store the address record. (Don't use JDBC). Use collection classes like ArrayList, Vector, Hashtable etc.

<https://github.com/MaitrayeeK/BasicJava/tree/master/src/Addressbook>

3. Create Java programs to show the usage of ArrayList, LinkedList, HashSet, TreeSet, PriorityQueue, HashMap, TreeMap , Streams , Collections etc.

<https://github.com/MaitrayeeK/BasicJava/tree/master/src/CollectionPrgs>

4. Design and Code a Java class called DataTable which implements an interface called Featurable which contains the method regarding foreground, background and font. This class will perform all the function of a normal table in a document. Provide the facility to create the table with no of rows and columns. Insert the values in the cells , resize columns and rows, delete and insert rows and columns in the table, get and set colour and font. etc. Create an Exception called Table exception and throw it when no of rows and columns are more than 200. Use this exception in the program. Write a method to populate the table with a collection of data put in Hashtable.

NO GUI must be used. Only textual interface must be given to user with options of all the operations.

<https://github.com/MaitrayeeK/BasicJava/tree/master/src/DataTable>

5. A retail company has got the records of its customers which contains name, home address and phone number, business address and phone number, and numbers for their fax machine, cellular phone, and pager, marital status, no of children and annual income and photograph in its database. Write GUI application to provide facility to add, save, delete, find and navigate the records. Show the average anual salary of the customers who are married (use procedure call). Use JDBC

https://github.com/MaitrayeeK/BasicJava/tree/master/src/Ass1_5