

CSE 215L#7

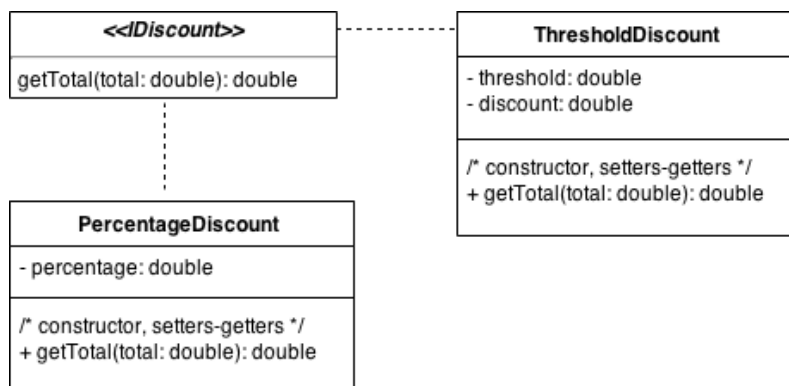
Spring 2016

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Note: If your code is similar to someone else's code or if you fail to explain any portion of your code, you will get 0. No exception and no explanation.

1.

Implement the following interface and classes:



Example:

Price of a shirt = 100

Percentage discount = 5%

Total = 100 – 5% of 100 = 95

Threshold = 60

Discount = 10

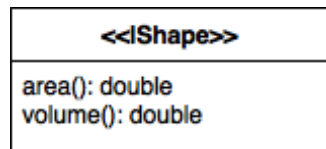
Price of a shirt = 100 which is > threshold

Total = 100 – 10 = 90

In main method, test `getTotal()` for both classes.

2.

Consider this interface:



Create two classes: Cylinder and Sphere, both of which implements this interface.

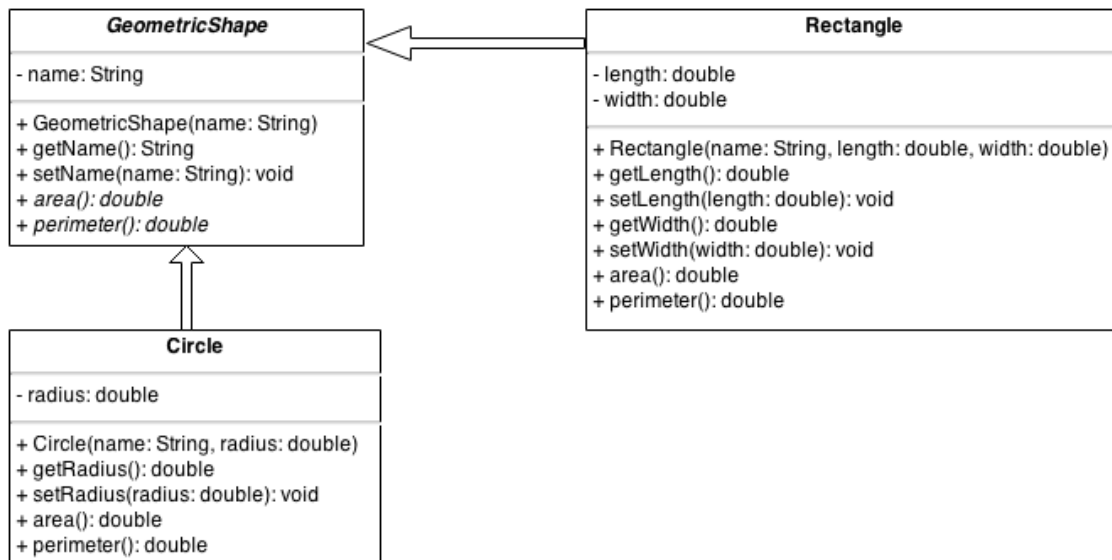
Cylinder area: $2\pi rh + 2\pi r^2$

Cylinder volume: $\pi r^2 h$

Sphere area: $4\pi r^2$

Sphere volume: $4\pi r^3 / 3$

3.



Create Circle and Rectangle objects and test in main method.

4.

Student
- id: String - name: String
+ Student(id: String, name: String) + getId(): String + setId(id: String): void + getName(): String + setName(name: String): void + toString(): String

Create a text file information.txt where the content is like this:

1010241042

Abrar Ahmed

093765044

Tasnim Haider

..... (3 more pair of lines)

In main method, read that text file, create Student objects from that information, store them in array and then print that array.