

UML diagram for question 13.7

Colorable
+Colorable: string
+howToColor:String

Square
-side: double
-square(): double -square(double side): double +getArea(): double +getPerimeter(): double +howToColor(): double

GeometricObject
-color:string -filled:boolean -dateCreated:java.util.date
+geometricObject() +geometricObject(color:string, filled:Boolean) +getColor(): string +setColor(color:string) +isfilled(): Boolean +setfilled(filled: Boolean) +getDateCreated(): java.util.date +toString(): string +getArea(): double +getPerameter():double

UML diagram for question 13.9

GeometricObject
-color:string -filled:boolean -dateCreated:java.util.date
+geometricObject() +geometricObject(color:string, filled:Boolean)

<pre> +getColor(): string +setColor(color:string) +isfilled(): Boolean +setfilled(filled: Boolean) +getDateCreated(): java.util.date +toString(): string +getArea(): double +getPerameter():double </pre>
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Rectangle
-radius: double
<pre> +circle(): double +Circle(double radius): double +getRadius(): double +setRadius(double radius): double +getArea(): double +Getdiameter():double +GetPerimeter():double +printCircle():void +equals(circle circle2): Boolean +comparableTo(double radius): double </pre>

UML diagram for question 13.11

GeometricObject
-color:string -filled:boolean -dateCreated:java.util.date
<pre> +geometricObject() +geometricObject(color:string, filled:Boolean) +getColor(): string +setColor(color:string) +isfilled(): Boolean +setfilled(filled: Boolean) +getDateCreated(): java.util.date +toString(): string +getArea(): double +getPerameter():double </pre>

Octagon
-side: double
-Octagon():double

-Octagon(double side): double
+getArea(): double +getPerimeter(): double +compareTo(Double o): double