Grace Kelly

Lab 10 UML Diagrams

13.1

|  |
| --- |
| **GeometricObject** |
| -color: String  -filled: Boolean  -dateCreated |
| -GeometricObject()  -GeometricObject(color: string, filled: Boolean)  +getColor(): String  +setColor(color: String)  +isFilled(): Boolean  +setFilled(filled: Boolean)  +getDateCreated()  +toString(): String  +getArea(): double  +getPerimeter(): double |

|  |
| --- |
| **Triangle** |
| -side1: double  -side2: double  -side3: double |
| +Triangle()  +Triangle(side1: double, side2: double, side3: double)  +getArea(): void  +getPerimeter(0: void  +toString(): String  +getSide1()  +setSide1(side1: double)  +getSide2()  +setSide2(side2: double)  +getSide3()  +setSide3(side3: double) |

13.5

|  |
| --- |
| **NewGeometric** |
| -color: String  -filled: Boolean  -dateCreated |
| -NewGeometric()  -NewGeometric(color: string, filled: Boolean)  +getColor(): String  +setColor(color: String)  +isFilled(): Boolean  +setFilled(filled: Boolean)  +getDateCreated()  +toString(): String  +getArea(): double  +getPerimeter(): double |

|  |
| --- |
| **Circle2D** |
| -x: double  -y: double  -radius: double |
| +Circle2D()  +Circle2D(x: double, y: double, radius: double)  +getx()  +gety()  +getRadius()  +setx(x: double)  +sety(y: double)  +setRadius(radius: double)  +getArea()  +getPerimeter()  +contains()  +overlaps()  +compareTo() |

|  |
| --- |
| **MyRectangle2D** |
| -width: double  -height: double |
| +MyRectangle2D()  +MyRectangle2D(width: double, height: double)  +getArea()  +getPerimeter()  +compareTo() |

13.7

|  |
| --- |
| **Square** |
| -x: double  -y: double  -side: double |
| +Square()  +Square(x: double, y: double, side: double)  +getx()  +setx(x: double)  +gety()  +sety(y: double)  +getSide()  +setSide(side: double)  +getArea()  +getPerimeter()  +howToColor() |

|  |
| --- |
| **GeometricObject** |
| -color: String  -filled: Boolean  -dateCreated |
| -GeometricObject()  -GeometricObject(color: string, filled: Boolean)  +getColor(): String  +setColor(color: String)  +isFilled(): Boolean  +setFilled(filled: Boolean)  +getDateCreated()  +toString(): String  +getArea(): double  +getPerimeter(): double |

13.9

|  |
| --- |
| **Circle** |
| -radius: double |
| +Circle()  +Circle(radius: double0  +getRadius()  +setRadius(radius: double)  +getArea()  +getPerimeter()  +equals() |

|  |
| --- |
| **Geometric9** |
| -color: String  -filled: Boolean  -dateCreated |
| -Geometric9()  -Geometric9(color: string, filled: Boolean)  +getColor(): String  +setColor(color: String)  +isFilled(): Boolean  +setFilled(filled: Boolean)  +getDateCreated()  +toString(): String  +getArea(): double  +getPerimeter(): double |

13.11

|  |
| --- |
| **Octagon** |
|  |
| +Octagon()  +Octagon(side: double)  +getSide()  +getArea()  +getPerimeter90  +clone() |