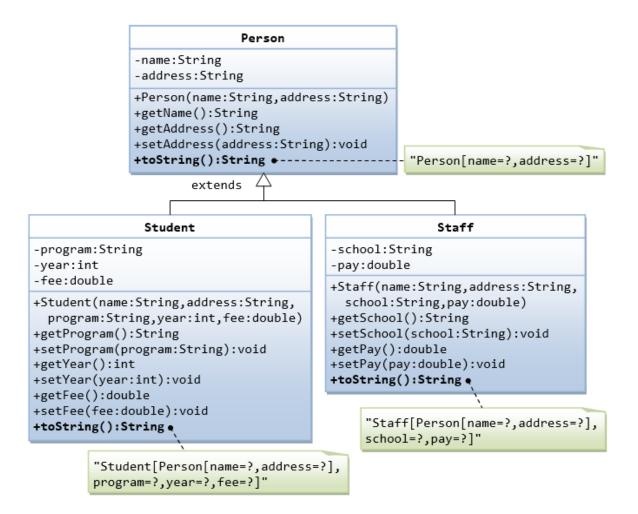
Bài 1:

```
Circle
-radius:double = 1.0
-color:String = "red"
+Circle()
+Circle(radius:double)
+Circle(radius:double,color:String)
+getRadius():double
+setRadius(radius:double):void
+getColor():String
+setColor(color:String):void
+getArea():double
+toString():String ◆-
                                         "Circle[radius=r,color=c]"
                   ∑ superclass
         extends
                    subclass
               Cylinder
-height:double = 1.0
+Cylinder()
+Cylinder(radius:double)
+Cylinder(radius:double,height:double)
+Cylinder(radius:double,height:double,
   color:String)
+getHeight():double
+setHeight(height:double):void
+getVolume():double
```

Bài 2:



Bài 3:

```
Point2D
  -x:float = 0.0f
  -y:float = 0.0f
  +Point2D(x:float,y:float)
  +Point2D()
  +getX():float
  +setX(x:float):void
  +getY():float
  +setY(y:float):void
  +setXY(x:float,y:float):void
                                        Array of {x,y}
  +getXY():float[2]◆
  +toString():String ◆-
                                        "(x,y)"
         extends 4
               Point3D
-z:float = 0.0f
+Point3D(x:float,y:float,z:float)
+Point3D()
+getZ():float
+setZ(z:flaot):void
+setXYZ(x:float,y:flaot,z:float):void_
                                        Array of {x,y,z}
+getXYZ():float[3] ◆-----
+toString():String.
                                         (x,y,z)
```

Bài 4:

```
Point
 -x:float = 0.0f
 -y:float = 0.0f
 +Point(x:float,y:float)
 +Point()
 +getX():float
 +setX(x:float):void
 +getY():float
 +setY(y:float):void
 +setXY(x:float,y:float):void
 +getXY():float[2]
                                           (x,y)"
 +toString():String •
           extends
              MovablePoint
-xSpeed:float = 0.0f
-ySpeed:float = 0.0f
+MovablePoint(x:float,y:float,
  xSpeed:float,ySpeed:float)
+MovablePoint(xSpeed:float,ySpeed:float)
+MovablePoint()
+getXSpeed():float
+setXSpeed(xSpeed:float):void
+getYSpeed():float
                                             (x,y), speed=(xs,ys)"
+setYSpeed(ySpeed:float):void
+setSpeed(xSpeed:float,ySpeed:float):void,
                                              x += xSpeed;
+getSpeed():float[2]
                                              y += ySpeed;
+toString():String.
                                              return this;
+move():MovablePoint
```

Bài 5:

```
Shape
     -color:String = "red"
     -filled:boolean = true
     +Shape()
     +Shape(color:String,filled:boolean)
     +getColor():String
     +setColor(color:String):void
     +isFilled():boolean
     +setFilled(filled:boolean):void
     +toString():String◆
                                             "Shape[color=?,filled=?]"
                   extends
             Circle
                                                  Rectangle
-radius:double = 1.0
                                       -width:double = 1.0
                                       -length:double = 1.0
+Circle()
+Circle(radius:double)
                                       +Rectangle()
+Circle(radius:double,
                                       +Rectangle(width:double,
   color:String,filled:boolean)
                                          length:double)
                                       +Rectangle(width:double,
+getRadius():double
+setRadius(radius:double):void
                                          length:double, color:String,
+getArea():double
                                          filled:boolean)
+getPerimeter():double
                                       +getWidth():double
                                       +setWidth(width:double):void
+toString():String.
                                       +getLength():double
                                       +setLength(legnth:double):void
           "Circle[Shape[color=?,
                                       +getArea():double
           filled=?],radius=?]"
                                       +getPerimeter():double
                                      +toString():String
     "Rectangle[Shape[color=?,
                                                    Square
     filled=?],width=?,length=?]"
                                       +Square()
                                       +Square(side:double)
                                       +Square(side:double,
     The length and width shall be
                                          color:String,filled:boolean)
     set to the same value.
                                       +getSide():double
                                       +setSide(side:double):void
                                      +setWidth(side:double):void
 "Square[Rectangle[Shape[color=?,
                                       +setLength(side:double):void
 filled=?],width=?,length=?]]"
                                       +toString():String
```