A Reflection API demo class

```java
/** A class used to demonstrate RTTI concepts
 */
public class CreateByName {
   /** Test method for the class
    * @param args names of classes to be
    * instantiated
    */
   public static void main( String[] args ) {
        for ( int i = 0; i < args.length; i++ ) {
           try {
                Class x = Class.forName( args[i] );
                Object y;
                try {
                  if ( x.isInterface() ) {
                        System.out.println( "The class " +
                                         x.getName() + " is an interface "
                                         + "and can't be instantiated." );
                  } else {
                      y = x.newInstance();
                      if ( y instanceof java.awt.Component ) {
                        System.out.println( "The GUI "
                                            + "component class "
                                            + x.getName() + " was specified." );
                      } else {
                        System.out.println("The non-GUI "
                                            + "component class "
                                            + x.getName() + " was specified." );
                      }
                  }
                } catch( InstantiationException ix ) {
                  ix.printStackTrace();
                } catch( IllegalAccessException iax ) {
                  iax.printStackTrace();
                } // end inner try
           } catch( ClassNotFoundException cnfx ) {
                System.err.println( "Sorry, the class "
                                  + args[i] + " could not be found." );
           } // end outer try
        } // end for
   } // end main
} // end CreateByName
```

```
igraine:Week12 easwarac$ java CreateByName A javax.swing.JSlider java.util.List
The non-GUI component class A was specified.
The GUI component class javax.swing.JSlider was specified.
The class java.util.List is an interface and can't be instantiated.
igraine:Week12 easwarac$ 
```

```java
class A {
    private int x;
    private String s;
    public A (int x, String s){
            this.x=x;
            this.s=s;
    }
    public A() {
      this.s=null;
    }
    private void setX(int x){
       this.x=x;
    }
    public  int Squared_x(int x){
            return x*x;
    }
    public void info(){
            System.out.println("This is an A object");
    }
    public String getString(){
            return s;
    }
    public int getX(){
            return x;
    }
}
```