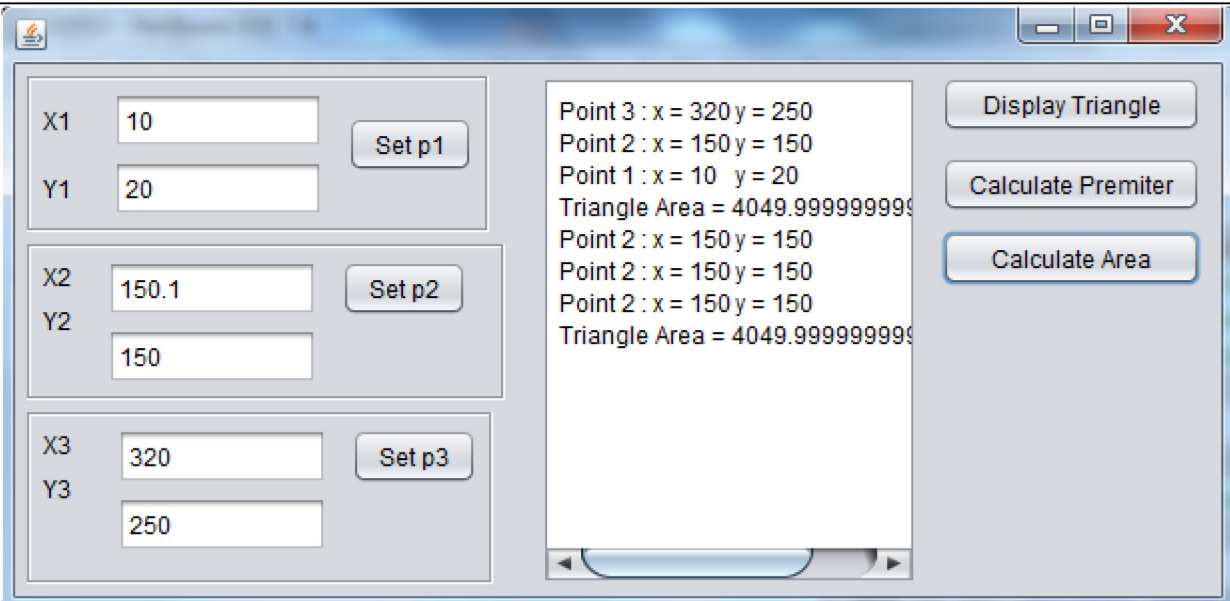


Fundamentals of Programming II Lab 13

EXP02



setP1 button	<pre>try { t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText())); } catch (Exception e) { } jTextArea1.append("Point 1 : x = " + t.getP1().getX() + "\ty = " + t.getP1().getY() + "\n");</pre>
setP2 button	<pre>try { t.setP2(Integer.parseInt(jTextField3.getText()), Integer.parseInt(jTextField4.getText())); } catch (Exception e) { } jTextArea1.append("Point 2 : x = " + t.getP2().getX() + "\ty = " + t.getP2().getY() + "\n");</pre>
setP3 button	<pre>try { t.setP3(Integer.parseInt(jTextField5.getText()), Integer.parseInt(jTextField6.getText())); } catch (Exception e) { } jTextArea1.append("Point 3 : x = " + t.getP3().getX() + "\ty = "</pre>

		+ t.getP3().getY() + "\n");
EXP03	SetP1	<pre> try { t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText())); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } jTextArea1.append("Point 1 : x = " + t.getP1().getX() + "\ty = " + t.getP1().getY() + "\n"); </pre>
EXP04	SetP1	<pre> try { if(Integer.parseInt(jTextField1.getText())<0) throw new Exception("Positive Number Required : "+jTextField1.getText()); if(Integer.parseInt(jTextField2.getText())<0) throw new Exception("Positive Number Required : "+jTextField2.getText()); t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText())); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } jTextArea1.append("Point 1 : x = " + t.getP1().getX() + "\ty = " + t.getP1().getY() + "\n"); </pre>
EXP05	SetP1	<pre> try { if(Integer.parseInt(jTextField1.getText())<0) throw new Exception("Positive Number Required : "+jTextField1.getText()); if(Integer.parseInt(jTextField2.getText())<0) throw new Exception("Positive Number Required : </pre>

		<pre> "+jTextField2.getText()); if (Integer.parseInt(jTextField1.getText()) > jPanel4.preferredSize().width) { throw new Exception("X is out of boundries, should be < " + jPanel4.preferredSize().width); } if (Integer.parseInt(jTextField2.getText()) > jPanel4.preferredSize().height) { throw new Exception("X is out of boundries, should be < " + jPanel4.preferredSize().height); } t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText())); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } jTextArea1.append("Point 1 : x = " + t.getP1().getX() + "\ty = " + t.getP1().getY() + "\n"); </pre>
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EXP06	SetP1	<pre> try { if(Integer.parseInt(jTextField1.getText())<0) throw new SecurityException("Positive Number Required : "+jTextField1.getText()); if(Integer.parseInt(jTextField2.getText())<0) throw new SecurityException("Positive Number Required : "+jTextField2.getText()); if (Integer.parseInt(jTextField1.getText()) > jPanel4.preferredSize().width) { throw new SecurityException("X is out of boundries, should be < " + jPanel4.preferredSize().width); } if (Integer.parseInt(jTextField2.getText()) > jPanel4.preferredSize().height) { throw new SecurityException("X is out of boundries, should be < " + jPanel4.preferredSize().height); } } </pre>
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		<pre> } t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText())); }catch(SecurityException e){ JOptionPane.showMessageDialog(this, "Out of Bound Error\n"+e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } catch (Exception e) { JOptionPane.showMessageDialog(this, "illegal Input Error\n"+e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } jTextArea1.append("Point 1 : x = " + t.getP1().getX() + "\ty = " + t.getP1().getY() + "\n"); </pre>
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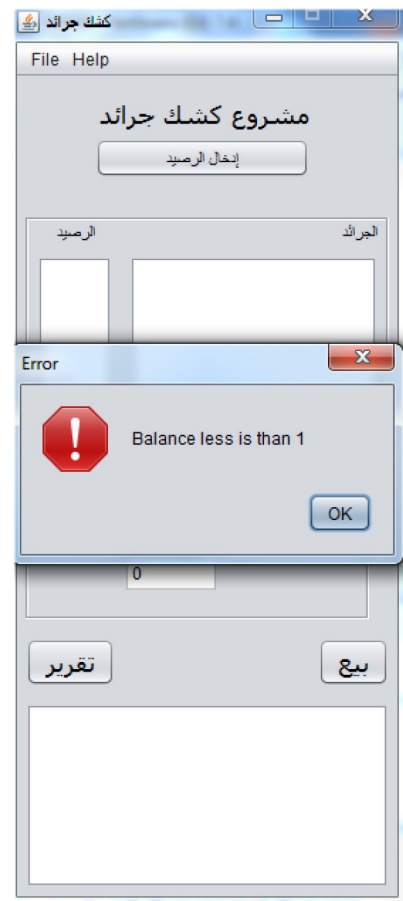
EXP07	SetP1	<pre> try { try { if (Integer.parseInt(jTextField1.getText()) < 0) { throw new Exception("Positive Number Required : " + jTextField1.getText()); } if (Integer.parseInt(jTextField2.getText()) < 0) { throw new Exception("Positive Number Required : " + jTextField2.getText()); } } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } try { if (Integer.parseInt(jTextField1.getText()) > jPanel4.preferredSize().width) { throw new Exception("X is out of boundries, should be < " + jPanel4.preferredSize().width); } if (Integer.parseInt(jTextField2.getText()) > jPanel4.preferredSize().height) { throw new Exception("X is out of boundries, should be </pre>
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		<pre> < " + jPanel4.preferredSize().height); } } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText())); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } jTextArea1.append("Point 1 : x = " + t.getP1().getX() + "\ty = " + t.getP1().getY() + "\n"); </pre>
--	--	--

EXP08	CPointXY	<pre> void setX(int X) throws Exception { if(X<0) throw new Exception("Positive number required"); this.X=X; } void setY(int Y) throws Exception { if(Y<0) throw new Exception("Positive number required"); this.Y=Y; } </pre>
	CTriangle	<pre> void setP1(int x, int y) throws Exception{ p1.setX(x); p1.setY(y); } void setP2(int x, int y) throws Exception{ p2.setX(x); p2.setY(y); } void setP3(int x, int y) throws Exception{ p3.setX(x); p3.setY(y); } </pre>

		}
Form	try {	
SetP1	if (Integer.parseInt(jTextField1.getText()) > jPanel4.preferredSize().width) {	
	throw new Exception("X is out of boundries, should be < " + jPanel4.preferredSize().width);	
	}	
	if (Integer.parseInt(jTextField2.getText()) > jPanel4.preferredSize().height) {	
	throw new Exception("X is out of boundries, should be < " + jPanel4.preferredSize().height);	
	}	
	t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText()));	
	} catch (Exception e) {	
	JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);	
	}	
	jTextArea1.append("Point 1 : x = " + t.getP1().getX() + "\nty = " + t.getP1().getY() + "\n");	

EXP09



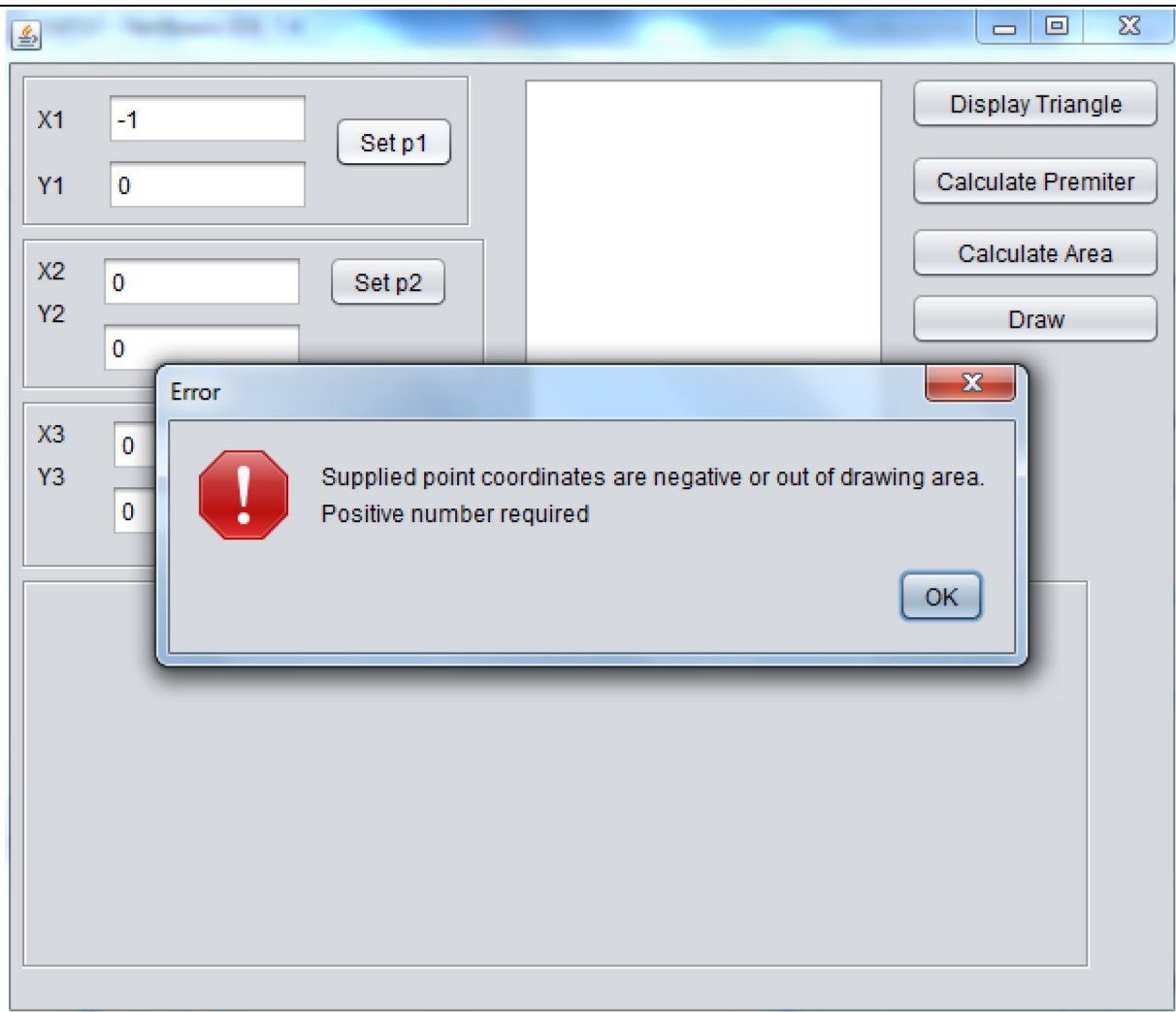
NewsPaper

```
void initNewsPaper(String name, int balance,
double netPrice,
double sellPrice) throws Exception {
    if (balance < 1) {
        throw new Exception("Balance less is than
1");
    }
    if (netPrice < 0) {
        throw new Exception("Net Price is less than
0");
    }
    if (sellPrice <= netPrice) {
        throw new Exception("Sell price is equals or
less than net price");
    }
    this.name = name;
    this.balance = balance;
    this.netPrice = netPrice;
```

		<pre> this.sellPrice = sellPrice; } void sellNewsPaper() throws Exception { if (balance == 0) { throw new Exception("zero balance can't sell selected utem"); } balance--; } </pre>
	NewsPaperBooth	<pre> void addNewsPaper(String name, int balance, double netPrice,double sellPrice) throws Exception { np[items].initNewsPaper(name, balance, netPrice, sellPrice); items++; } void sellNewsPeper(int item) throws Exception { np[item].sellNewsPaper(); costInHand+=np[item].getNetPrice(); sellInHand+=np[item].getSellPrice(); profit=sellInHand-costInHand; } </pre>
	form	
	formWindowActivated	<pre> if (snpf.press.equalsIgnoreCase("apply")) { this.setEnabled(true); try { npb.addNewsPaper(snpf.name, Integer.parseInt(snpf.balance), Double.parseDouble(snpf.netPrice), Double.parseDouble(snpf.sellPrice)); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } } </pre>

		<pre> DefaultListModel dlm1 = new DefaultListModel(); DefaultListModel dlm2 = new DefaultListModel(); for (int n = 0; n < npb.items; n++) { dlm1.addElement(npb.np[n].getName()); } for (int n = 0; n < npb.items; n++) { dlm2.addElement(npb.np[n].getBalance()); } jList1.setModel(dlm1); jList2.setModel(dlm2); } else if (snpf.press.equalsIgnoreCase("cancel")) { this.setEnabled(true); } else if (snpf.press.equalsIgnoreCase("1")) { snpf.setVisible(true); } snpf.press = "0"; </pre>
	بيع	<pre> try { int[] selected = new int[totalItems]; selected = jList1.getSelectedIndices(); for (int n = 0; n < selected.length; n++) { npb.sellNewsPeper(selected[n]); } update(); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } </pre>

EXP10



BoundriesException

```

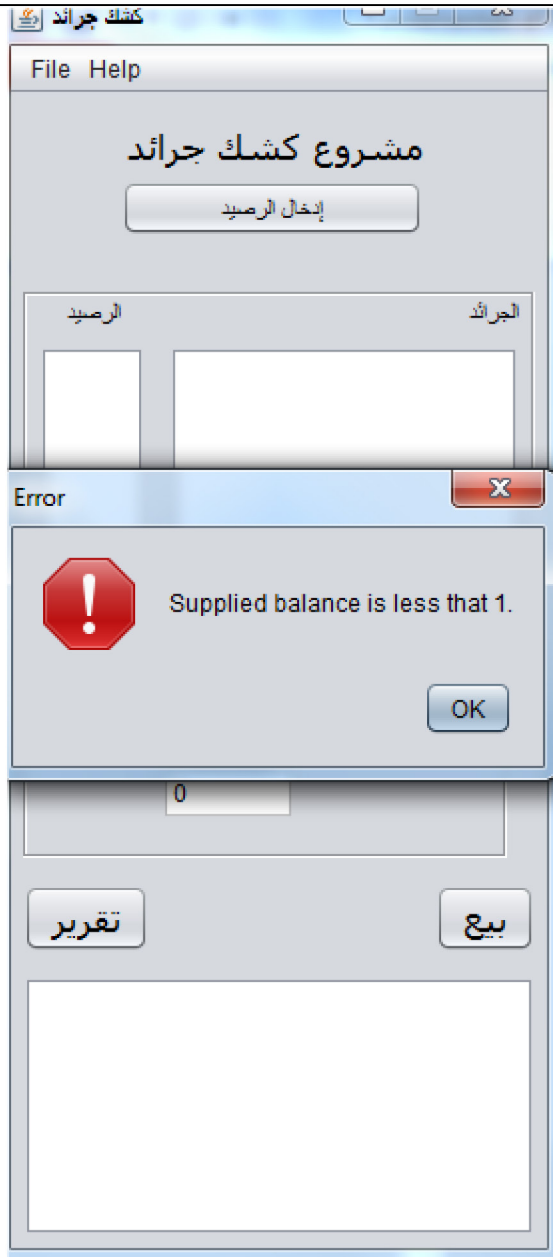
public class BoundriesException extends Exception{

    BoundriesException()
    {
        super();
    }
    BoundriesException(String msg)
    {
        super(msg);
    }
    @Override
    public String getMessage()
    {
        return "Supplied point coordinates are negative
or out of drawing area."
        +"\n"+super.getMessage();
    }
}
    
```

		<pre> } } </pre>
	CPointXY	<pre> void setX(int X) throws BoundriesException { if(X<0) throw new BoundriesException("Positive number required"); this.X=X; } void setY(int Y) throws BoundriesException { if(Y<0) throw new BoundriesException("Positive number required"); this.Y=Y; } </pre>
	Form	
	SetP1	<pre> try { if (Integer.parseInt(jTextField1.getText()) > jPanel4.preferredSize().width) { throw new BoundriesException("X is out of boundries, should be < " + jPanel4.preferredSize().width); } if (Integer.parseInt(jTextField2.getText()) > jPanel4.preferredSize().height) { throw new BoundriesException("X is out of boundries, should be < " + jPanel4.preferredSize().height); } t.setP1(Integer.parseInt(jTextField1.getText()), Integer.parseInt(jTextField2.getText())); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } jTextArea1.append("Point 1 : x = " + </pre>

```
t.getP1().getX() + "\ty = " + t.getP1().getY() + "\n");
```

EXP11



BalanceException

```
public class BalanceException extends Exception{
    BalanceException()
    {
        super();
    }
    BalanceException(String msg)
    {
        super(msg);
    }
}
```

		<pre>@Override public String getMessage() { return "Supplied balance is less that 1."; } }</pre>
	MoneyException	<pre>public class MoneyException extends Exception{ int type=0; MoneyException() { super(); } MoneyException(String msg) { super(msg); } MoneyException(int type) { super(); this.type=type; } @Override public String getMessage() { String msg; switch(type) { case 1: msg="supplied price is less that zero"; break; case 2: msg="supplied prices results a profit is less that zero"; break; default: msg="Undefined Error"; } } }</pre>

		<pre> break; } return msg; } </pre>
		form
formWindowActivated		<pre> if (snpf.press.equalsIgnoreCase("apply")) { this.setEnabled(true); try { npb.addNewsPaper(snpf.name, Integer.parseInt(snpf.balance), Double.parseDouble(snpf.netPrice), Double.parseDouble(snpf.sellPrice)); } catch (Exception e) { JOptionPane.showMessageDialog(this, e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE); } DefaultListModel dlm1 = new DefaultListModel(); DefaultListModel dlm2 = new DefaultListModel(); for (int n = 0; n < npb.items; n++) { dlm1.addElement(npb.np[n].getName()); } for (int n = 0; n < npb.items; n++) { dlm2.addElement(npb.np[n].getBalance()); } jList1.setModel(dlm1); jList2.setModel(dlm2); } else if (snpf.press.equalsIgnoreCase("cancel")) { this.setEnabled(true); } else if (snpf.press.equalsIgnoreCase("1")) { </pre>

```
snpf.setVisible(true);
}
snpf.press = "0";
```

EXP11

