Questions: Non-Design Pattern Version

In order to complete each task, you need to fill $\underline{\textbf{NAME}}$, $\underline{\textbf{START TIME}}$ and $\underline{\textbf{END TIME}}$ for each task.

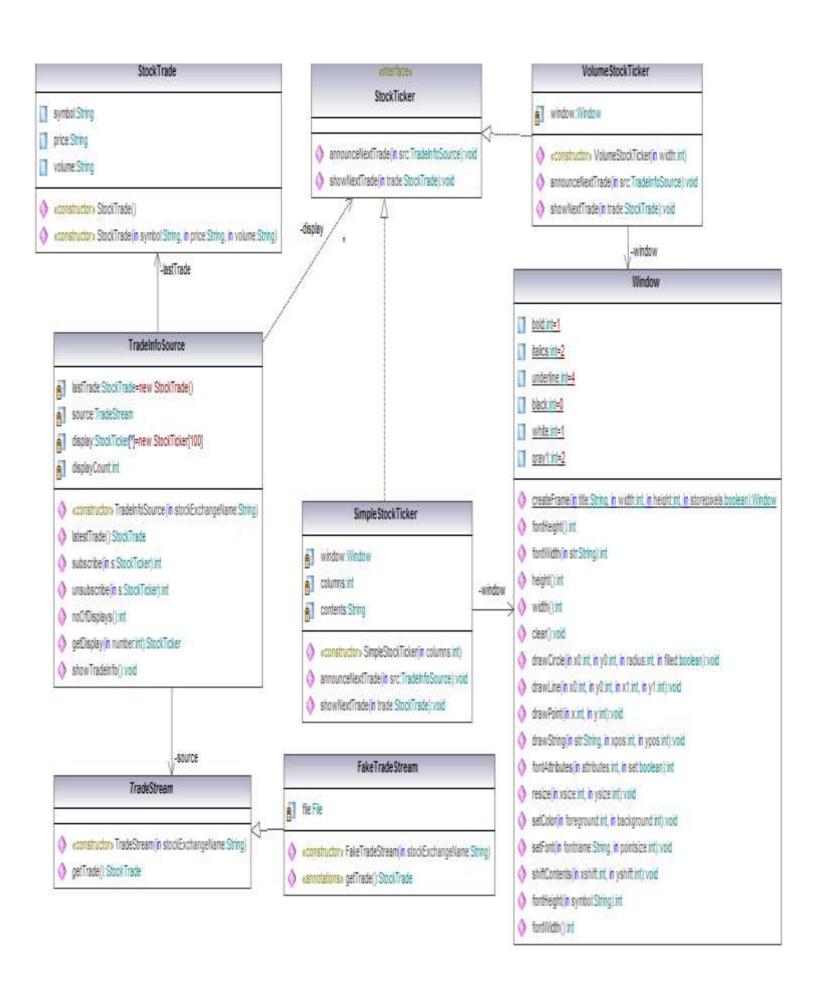
Program: Stock Ticker (Non-Design Pattern)

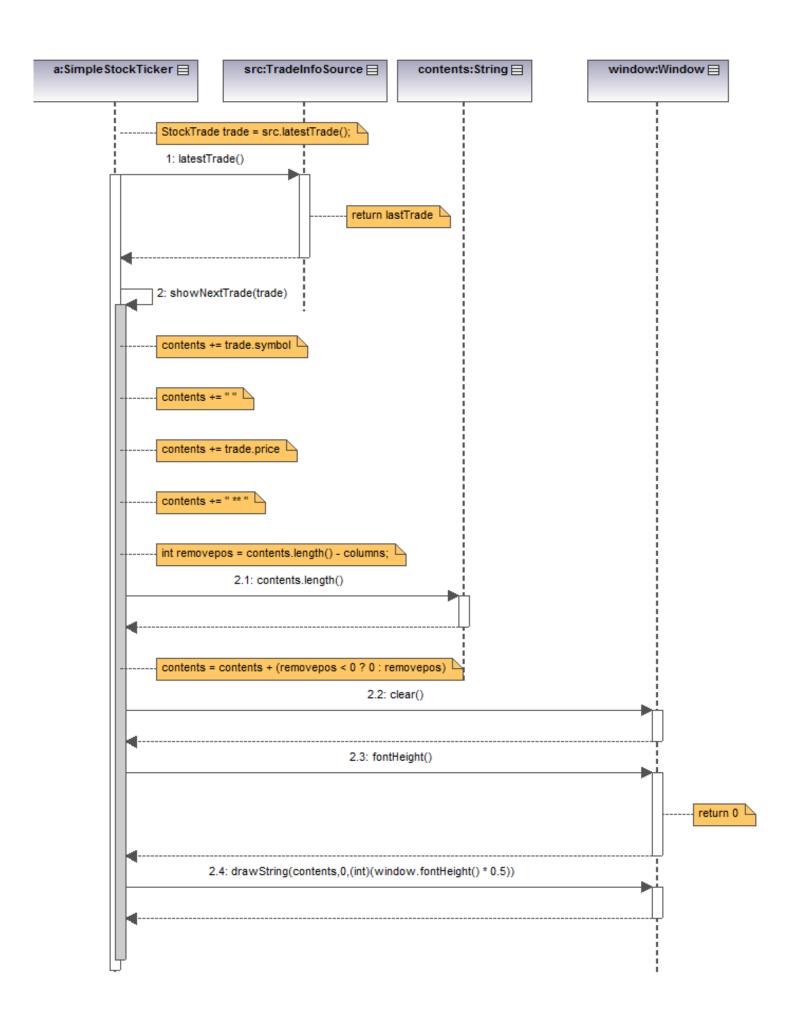
Description:

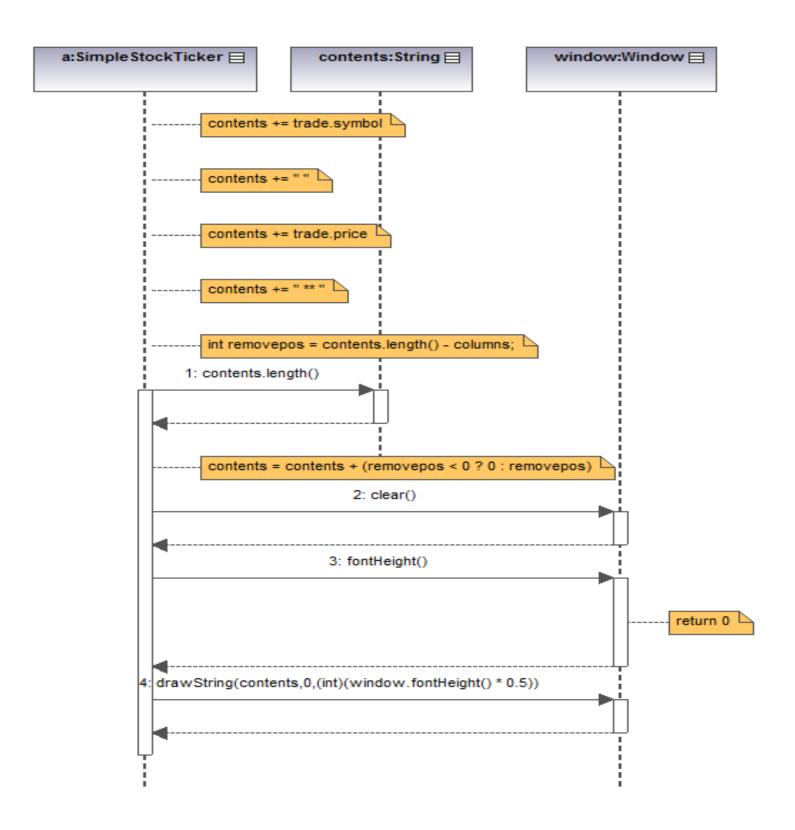
Shortly, you will receive a "stock ticker" design. This incomplete program is used for directing a continuous stream of stock trades (title, number, unit, price) from a stock market to one or more displays, which are also a part of the program. The displays advertise the information or part of it.

The data (of type *StockTrade*) come from a *FakeTradeStream* which simulates the trade datastream by reading the data repeatedly from a file. This is done for simplification. In the present program version only *one* display shows the stock data. The type of this display is *SimpleStockTicker*. A second display named VolumeStockTicker is implemented but presently not used. Both types of display are shown in the figure below

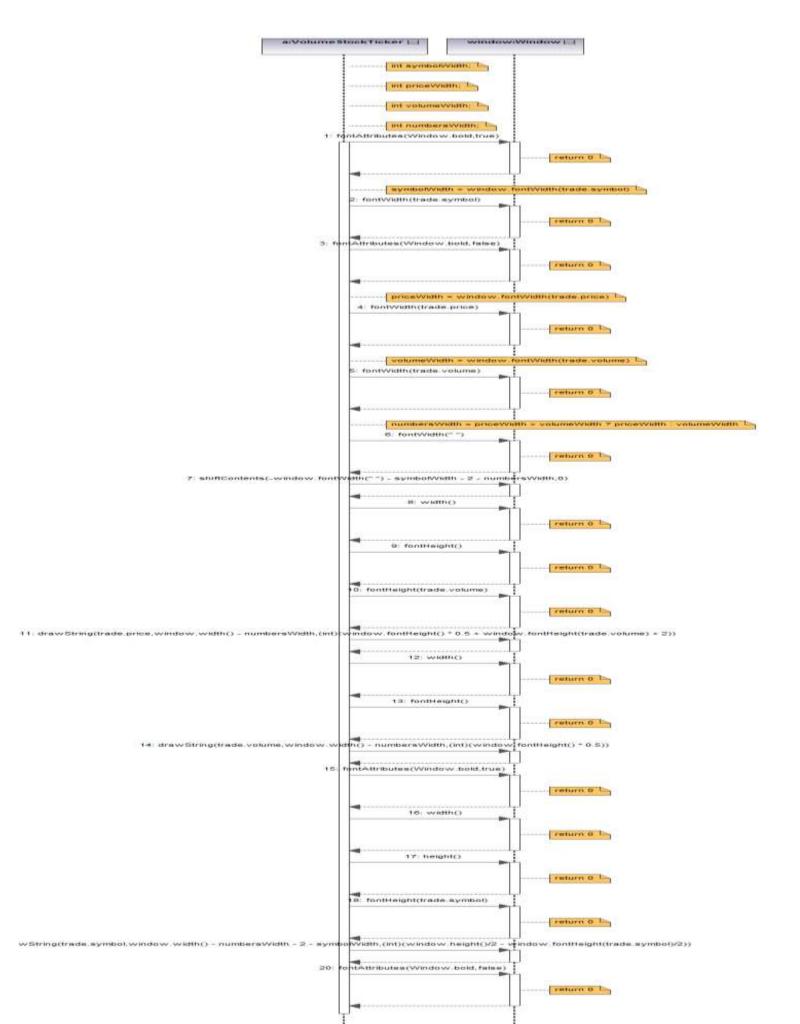


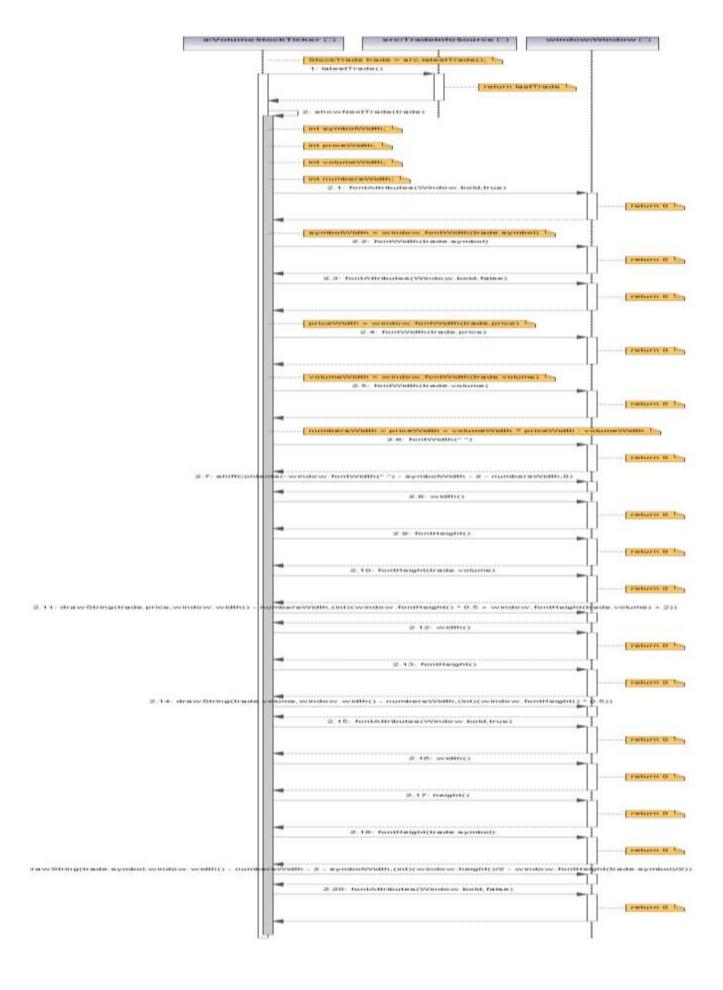






a:TradeInfoSource ⊟	
	·····int pos;
loop [pos = 0; pos < d	splayCount; pos++]
alt [display[pos] == s]	break
[- te]	
alt [display[pos] != s]	· return displayCount
	······displayCount
loop [pos < displayCount; pos++]	
	display[pos] = display[pos+1]
	return displayCount





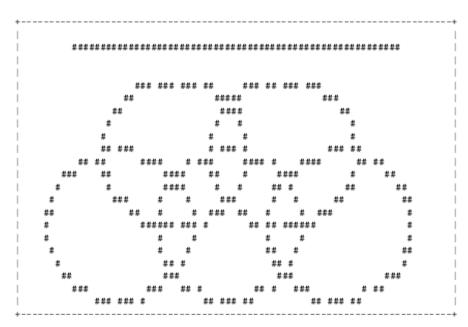
Task 1: Please answer all these questions.

Name:
Start Time:: (hh: mm) ** The time that you begin answer the question.
Provide all class names that access the TradeInfoSource class for getting the data.
Provide all class names that access the access the createFrame method in the Window class.
3. Provide the class names that are invoked by a constructor of the TradeInfoSource class.
End Time: (hh : mm) ** The time that you completely answer all questions.

Program: Graphics Library (Non-Design Pattern)

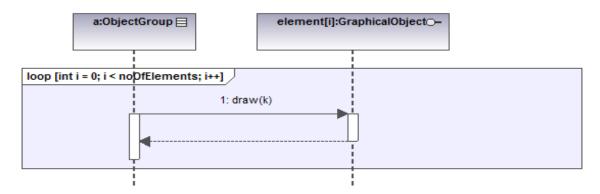
Description

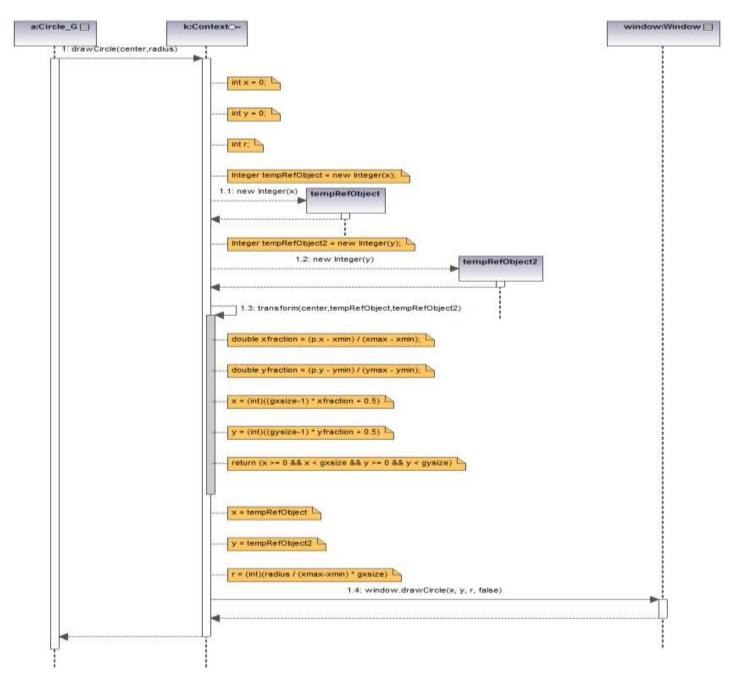
You will receive a "graphics library" design. It contains a library for creating, manipulating, and drawing simple types of graphical objects (*Line, Circle*) on different types of graphical devices (alpha-numerical output *A*, pixel graphic device *G*). Furthermore it contains a simple main program that uses some of the objects and operations. It displays the result shown below.

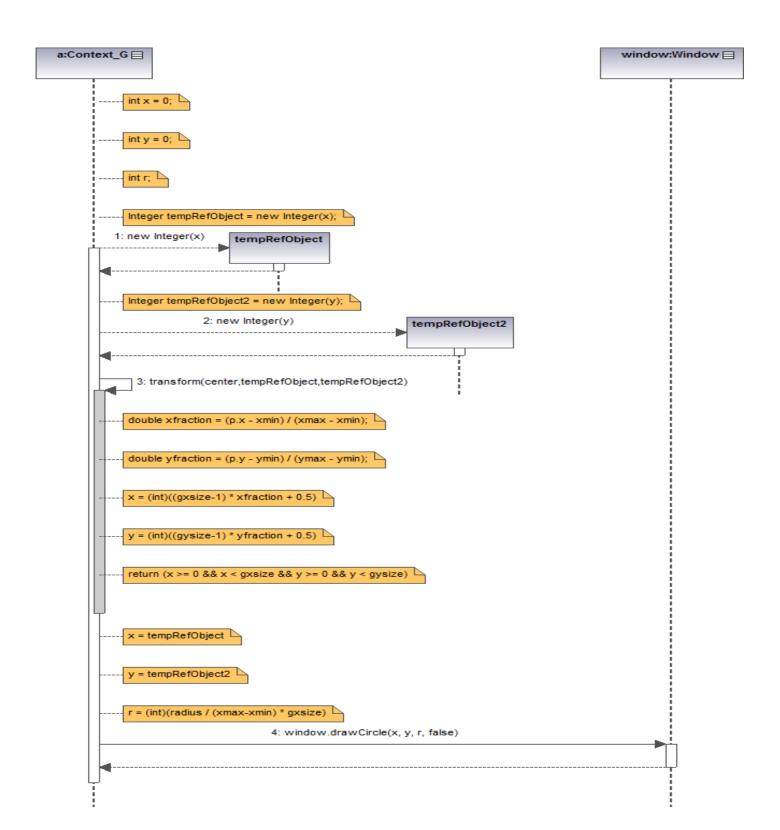


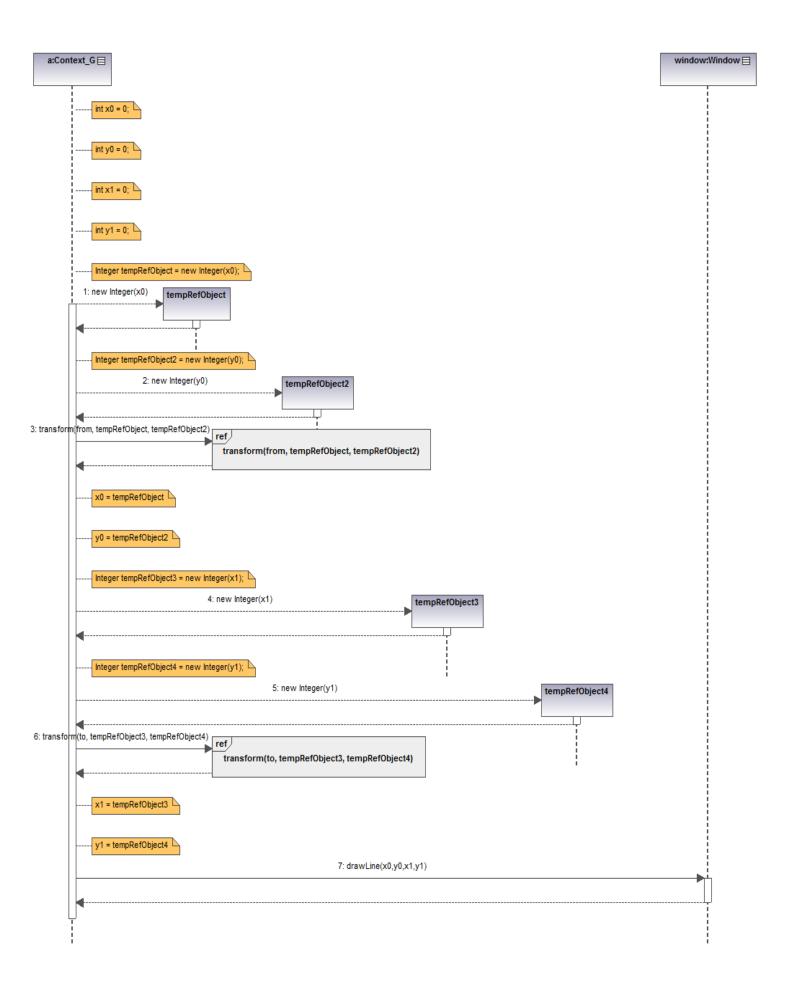
A collection of classes (*Context*) implements the primitive operations for different output devices. There is a minimal set of operations but some devices provide additional functionality. For this reason some objects (in this case *Line*) are implemented only once for all devices but other objects (in this case *Circle*) are implemented individually for each device. Which device is to be used can be selected at a central spot *Generator*.

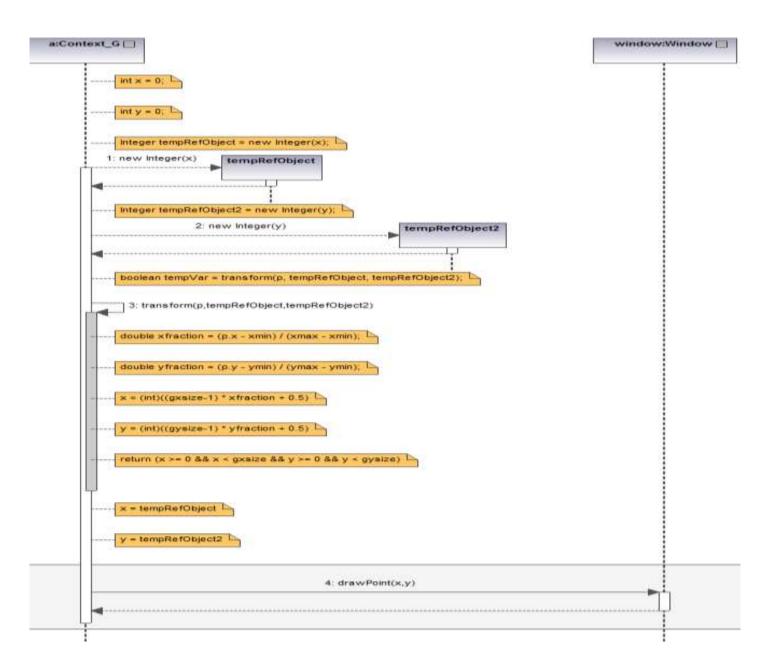


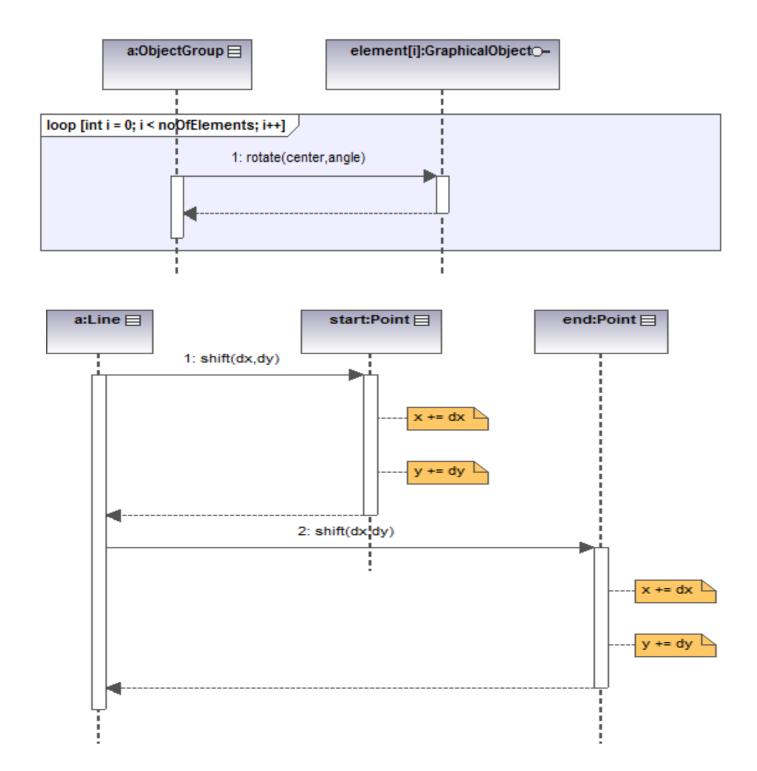












Task 2: Please answer all these questions.

Name:
Start Time:: (hh: mm) ** The time that you begin answer the question.
Provide all class names that plot the 2D point
Provide the class name that control types of graphical.
3. Provide all class names that manipulate the GraphicalObject objects.
4. From the Question 3, provide all method names that collect the GraphicalObject objects.
5. Provide a base class of the graphical representation hierarchy.
6. Provide all class names that the Circle_A class uses to draw a circle.
7. Provide all class names that the Line class uses to draw a line.
8. Provide all class names that display circle on device G.
9. Provide all class names that call the drawCircle method in the Window class.
10. Provide all class names that invoke the Generator class.
End Time: : (hh : mm) ** The time that you completely answer all questions

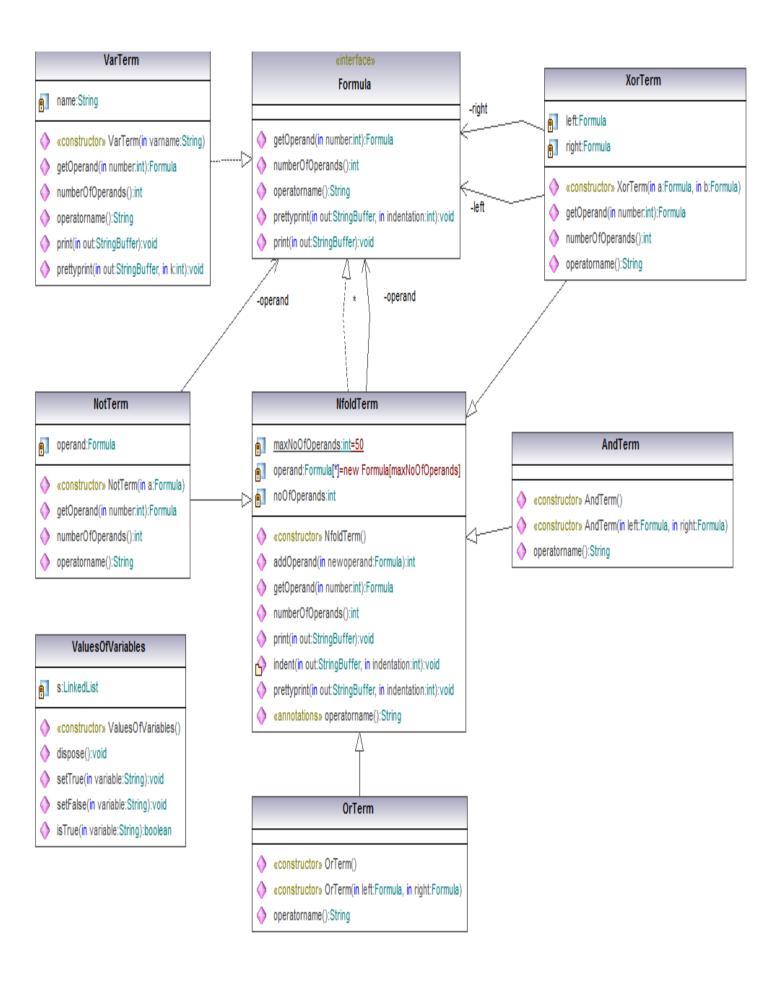
Program: Boolean Formulas

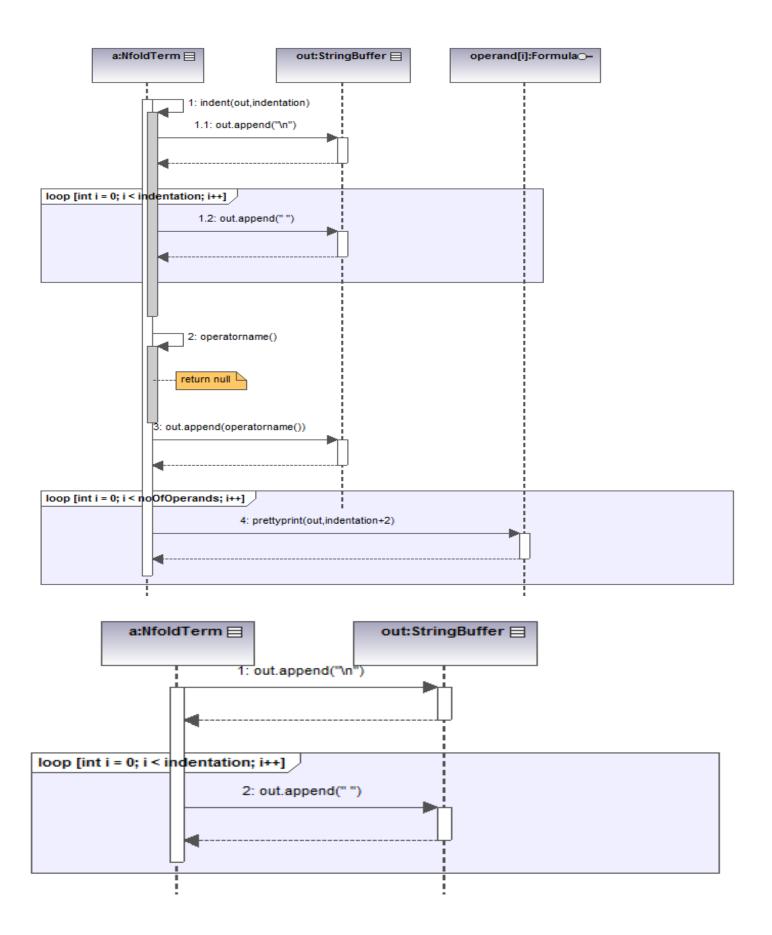
Description:

You will receive the "boolean formulas" design. It contains a library for representing boolean formulas (using AND, OR, XOR, NOT, and variables) and for printing the formulas in two different styles: in infix notation on a single line or prefix notation on multiple lines with indentations. Furthermore, it contains a small main program, which generates a formula and invokes both printing routines this leads to the following

```
((a XOR NOT b) AND (NOT x1 OR NOT x2))

AND
XOR
a
NOT
b
OR
NOT
x1
NOT
x2
```





Task 3: Please answer all these questions.

lame:	_
Start Time:: (hh: mm) ** The time that you begin answer the question.	
. List the class name(s) that access numberOfOperands function in the class AndTerm.	
List the class function name(s) that are used in a constructor of the class Or	·Term
s. List the value that is returned from getOperand function in the class VerTerr	n.
List the value that is returned from numberOfOperands function in the class XorTerm.	
List the value that is returned from numberOfOeprands function in the VarTo	erm.
i. List the value that is returned from numberOfOperands function in the class NotTerm.	
ind Time:: (hh: mm) ** The time that you completely answer all ques	tions.

Program: Communication Channel Library

Description:

"communication channels" Shortly, you will receive а design. It consists of a library for configuring and running a communication channel. Such a channel CommChannel establishes a communication connection and one can add compression, logging, data and encryption. The library does not implement the functionality itself, instead it implements a simplified interface for the combination of the parts. The names of the operations indicate approximately the functionality; an exact definition is not necessary for the task.



Task 4: Please answer all these questions.

Name:
Start Time:: (hh: mm) ** The time that you begin answer the question.
Provide all class name that have a function to decrypt the data
2. Provide all class names that have a function to encrypt the data.
3. Provide all class names that have a function to compress the data.
4. Provide all class names that represent the unit of the data between two computers.
5. Provide all class names that control the communication channel.
6. Provide all class names that use the function in the Logging class.
7. Provide all class names that provide the stream object for writing a log file.
8 In the CommChannel class, please provide all method names that are invoked by the Datablock class.
9. Provide all class names that do not invoke the Dtablock class.
10. Provide all class names that create a Sockectfor making a connection.
End Time: (hh: mm) ** The time that you completely answer all questions