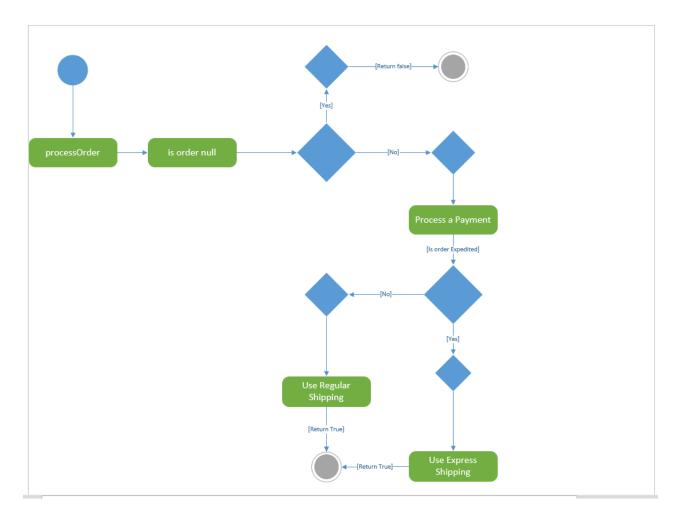
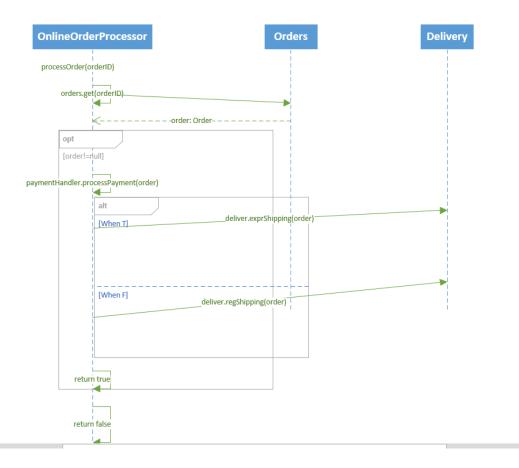
4)

8b)





9)

I implemented the classes as I saw fit and as I thought would be the most efficient for the program.

```
import java.util.*;

public class Lamp{
    protected boolean status;

    Lamp() {
        status = false;
    }

    public boolean getStatus() {
        return status;
    }

    public void turnOn() {
        status = true;
    }

    public void turnOff() {
        status = false;
    }
```

```
class Switch{
      protected Lamp lamp;
      Switch(){
            lamp = new Lamp();
      }
      public void changeStatus() {
            if(lamp.getStatus()) {
                  lamp.turnOff();
            else {
                  lamp.turnOn();
      }
      public String toString() {
            String str = "The status of the light bulb is ";
            if(lamp.getStatus()) {
                 str += "on";
            else {
                  str += "off";
            return str;
      }
}
```

1-3,5-8a)

	Noch Strevelor Midterm
Pot; = new P(); (ot; = new ((); Pot; = new P(); +this.super();	
2) The only issue that I see is these should be a method overriding distance To Origin()	
3	Point 27
+ time i boolean	
- employment booleand - enrichment booleand	t get Y():Int
- name: string - student IV: int	Point 3V
-contact Info: String -enrolled: String	
- GPA: double - living Eligibility: bonler	distance To Origin (): dbl
- finances: dauble - payment Method: String	+ get Student ID: int + get Cantact Info: String
- majer: 4tolog - minor: 4tring	tget Enrollment: String + get GPA: dauble
Fyet Time: bonlean +get Living Eligibility: boolean + get Grade: int + get Finances: double	
tget Employment: boolean tget layment Method: String tget Enrichment: boolean tget Major: String	
t get Name: String	t get Minor: String

3) I used this design because I wasn't have if we were allowed to use subclasses, as the instructing said just to use instance variables and methods. For there methods though, I used basteon when I felt it 5 was one or the other, and used other primitives when appropriate to the variable I was getting. I also added 2 Instance variables for major and miner as I felt they 2 were important information. 2 4 Coded 50 This code violates the Law of Vemeter because the method is doing too much, not keeping it simple by having an unneccasiony abone 100p 2 56) To change it I would do 0 for (Branch b: branches) 4 total += b.get Noder Total (); 6 I would create an Array List called list Offervices of type service and every time a service was performed I would add it to the Array List with the correlating charge. Then when running a far loop at the end I would run through the Array List and get the charge for each service and add it to tokal Bill, like the example shows.

7 Grade Book	
-class Assignment Records: map	
+ compale scarec): double	
+ getAverage Scare(): double	
Assignment	
It campule score (): dauble	
850 nline Order Processor (), Temporal - It initializes variables	
- process Order, Communicational-Each line calls on another	
- process Return, Functional - This method has the sole	
- process Return, Functional - 1 his method has the sole	
purpose of figuring out which kind of refund the	
customer will be giver, which is functional	
<i>b</i> /	