Q₁ Modify MyParser program to allow a new functionality which is parsing XLS files.
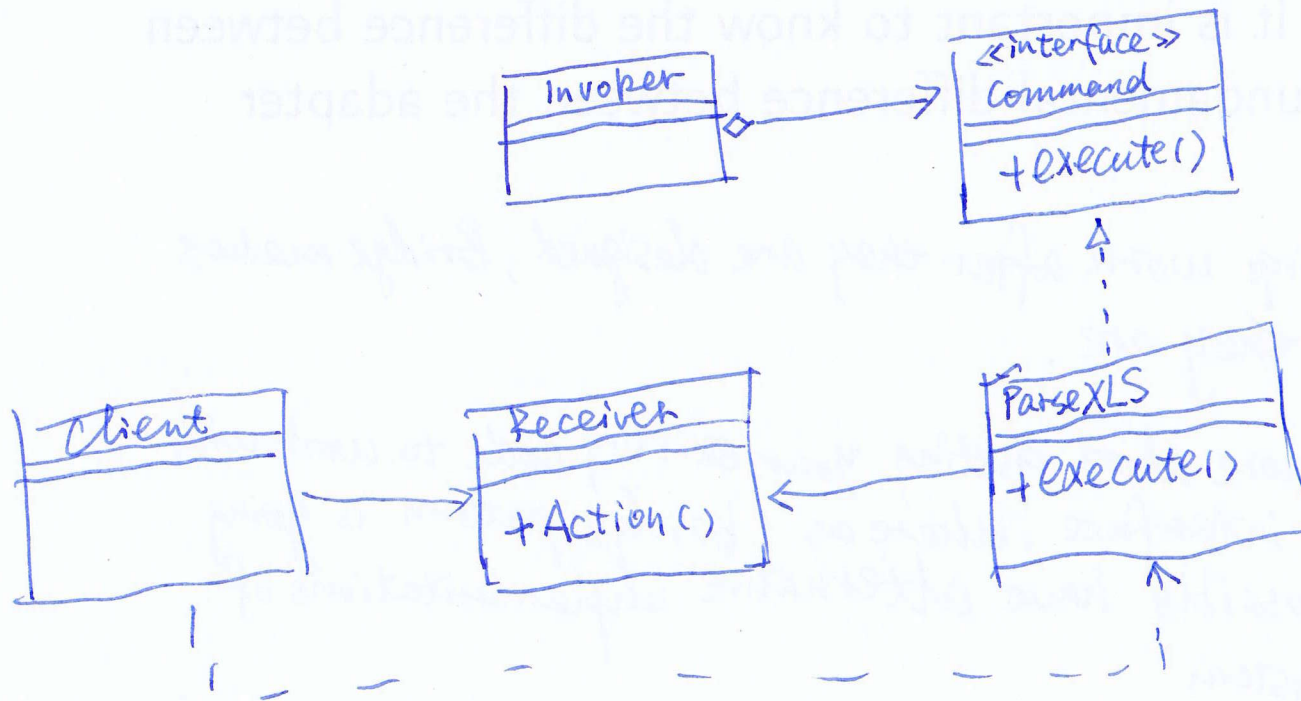Note: No need to provide detailed codes. You may use a model for that.

Invoker

«interface»
Command
+ execute( )

Client

Receiver
+ Action( )

ParseXLS
+ execute( )

Q2 Having several commands in a queue to be executed in a specific time is a special case of the Command Pattern. This case is usually called macro commands. Give an example of it.

```java
public interface Command {
    void execute();
}
public class MacroCommand extends Command {
    private List<Command> history = new ArrayList<Command>();

    public void storeAndExecute(Command cmd) {
        this.history.add(cmd);
    }
    public void execute() {
        for(int i=0; i < history.size(); i++)
            history[i].execute();
    }
}
```

Q3 Draw an appropriate class diagram for the following scenario:

Cars repair shop

Clients come in with different type of cars that have different issues. The clerk at the front desk takes their information and complaints. Then he places the car in a queue for repair. At a certain point of time, the car will become the first item in the queue and the mechanic will repair it according to its issues. For example, he might replace the front/rear brake pads, a tyre or the battery.

clerk
record();

<<interface>> mechanic
repair();

client

Receiver
check();

Concrete repair
repair();

repair() & tyre

repair() & battery