Day 21 26th July 2025

SOLID:

S -

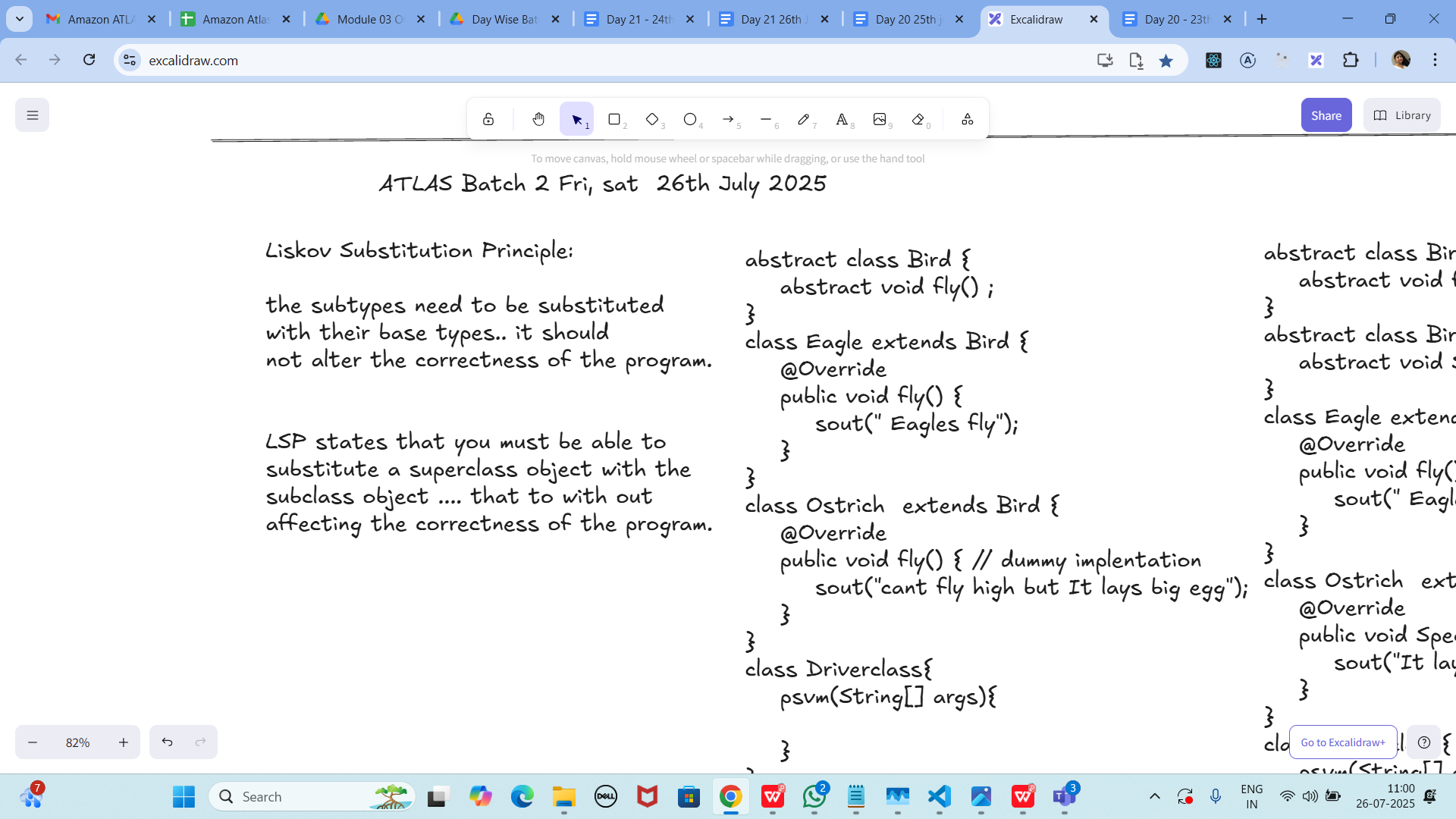
O -

L -

I -

D -

Liskov Substitution Principle



Task 01:

Violation of Liskov

abstract class Bird {

abstract void fly() ;

}

class Eagle extends Bird {

@Override

public void fly() {

sout(" Eagles fly");

}

}

class Ostrich extends Bird {

@Override

public void fly() { // dummy implentation

sout("cant fly high but It lays big egg");

}

}

class Driverclass{

psvm(String[] args){

}

}

Task 02:

Implementation of Liskov

abstract class BirdsthatFly {

abstract void fly() ;

}

abstract class BirdsthatDontFly {

abstract void Speciality() ;

}

class Eagle extends BirdsthatFly {

@Override

public void fly() {

sout(" Eagles fly");

}

}

class Ostrich extends BirdsthatDontFly {

@Override

public void Speciality() {

sout("It lays big egg");

}

}

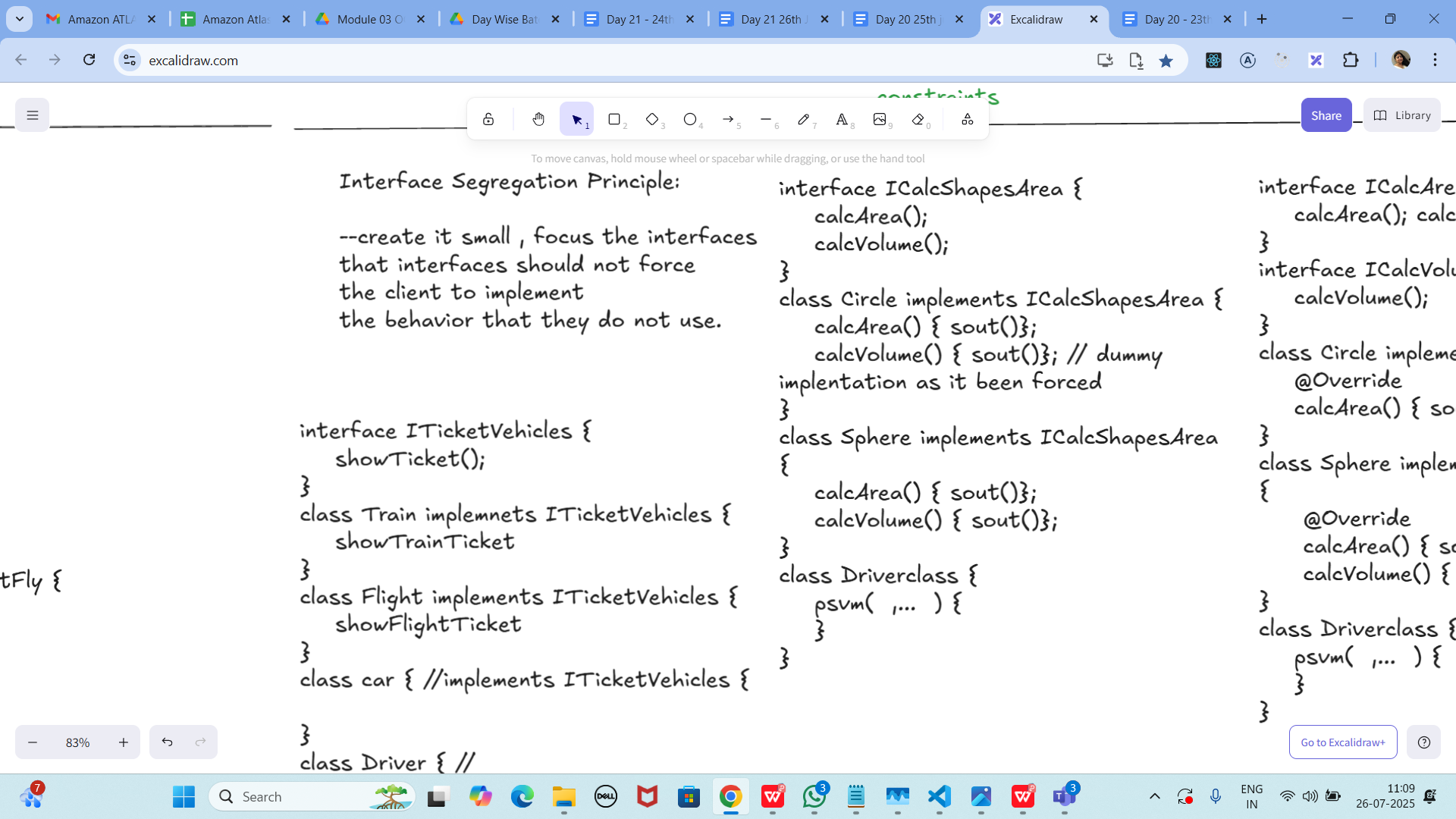
class Driverclass{

psvm(String[] args){

}

}

I - Interface Segregation Principle



Task 03:

Violation of Interface Segregation principle

interface ICalcShapesArea {

calcArea();

calcVolume();

}

class Circle implements ICalcShapesArea {

calcArea() { sout()};

calcVolume() { sout()}; // dummy implentation as it been forced

}

class Sphere implements ICalcShapesArea {

calcArea() { sout()};

calcVolume() { sout()};

}

class Driverclass {

psvm( ,... ) {

}

}

Task 04:

Implementation of Interface Segregation Principle

interface ICalcArea {

calcArea(); calcPerimeter();

}

interface ICalcVolume {

calcVolume();

}

class Circle implements ICalcArea {

@Override

calcArea() { sout()};

}

class Sphere implements ICalcArea, ICalcVolume {

@Override

calcArea() { sout()};

calcVolume() { sout()};

}

class Driverclass {

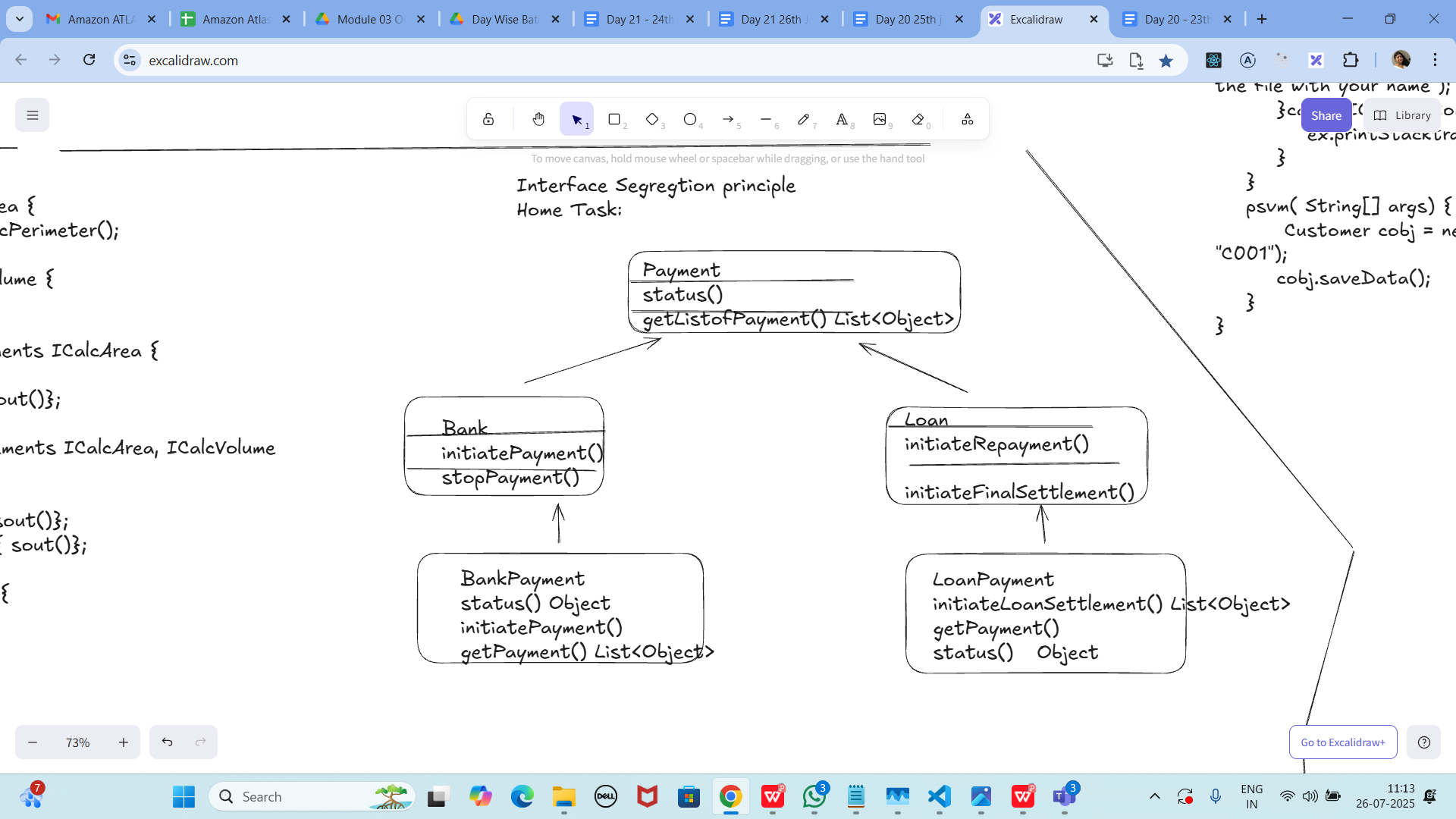
psvm( ,... ) {

}

}

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Home Tasks:



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**Info box:**

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<https://excalidraw.com/#json=FvHREzZ_RxqrbO0_4iF3U,0WLjacoEfdym6RTsA9sGYA>

Updated link: @ 11.00 26th July 2025 is the below..

<https://excalidraw.com/#json=etbysGBZ-YBvF_bavIIil,E7NdpUtrmOPY-fn81ADwrg>

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Info Box