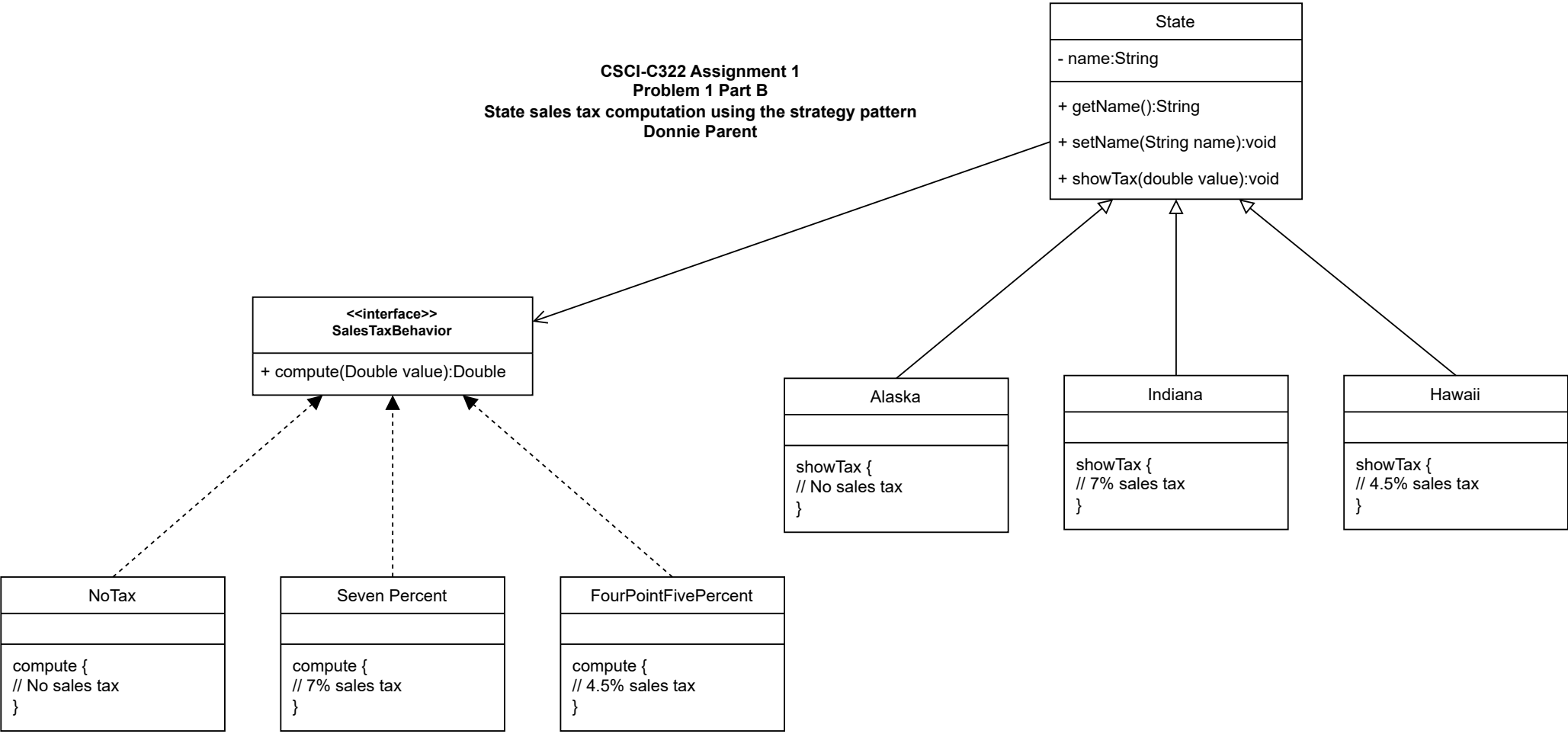
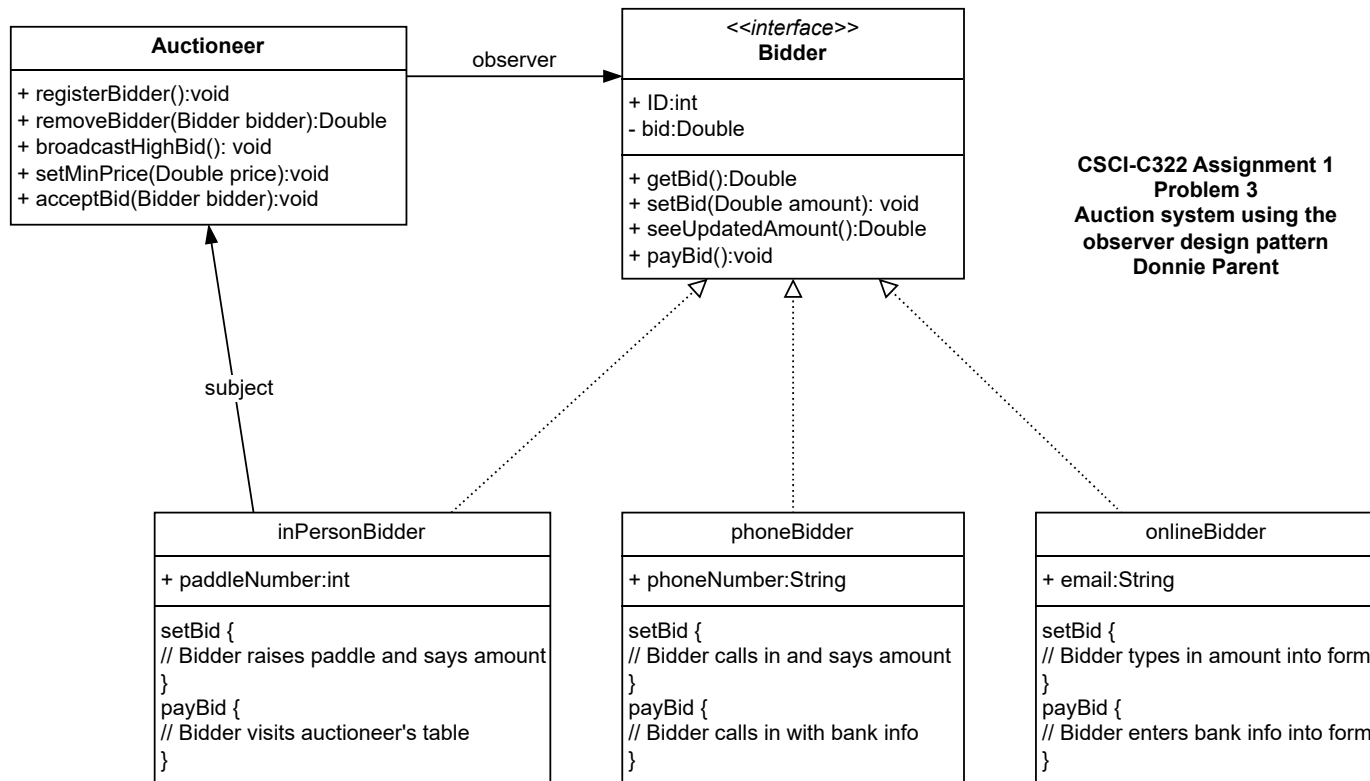


CSCI-C322 Assignment 1
Problem 1 Part B
State sales tax computation using the strategy pattern
Donnie Parent



Problem 2

1. A MallardDuck **IS-A** Duck because MallardDuck inherits behaviors such as swim() or display() from Duck.
2. A RedheadDuck **IS-A** Duck because RedheadDuck inherits behaviors such as swim() or display() from Duck.
3. A RubberDuck **IS-A** Duck because RubberDuck inherits behaviors such as swim() or display() from Duck.
4. A DecoyDuck **IS-A** Duck because DecoyDuck inherits behaviors such as swim() or display() from Duck.
5. A Duck **HAS-A** FlyBehavior because Duck and all of its subclasses contains a FlyBehavior object as a variable (flyBehavior).
6. A Duck **HAS-A** QuackBehavior because Duck and all of its subclasses contain a QuackBehavior object as a variable (quackBehavior).
7. A Quack **IS-A** QuackBehavior because Quack implements the quack() method.
8. A Squeak **IS-A** QuackBehavior because Squeak implements the quack() method.
9. A MuteQuack **IS-A** QuackBehavior because MuteQuack implements the quack() method



CSCI-C322 Assignment 1
Problem 3
Auction system using the
observer design pattern
Donnie Parent