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Homework 3

OO Software Development

Q1

Liskov Substitution Principle:

Function run in Tiger overridden super non-abstract function run.

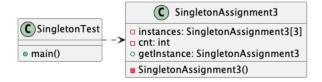
Q2

Interface Segregation Principle

Class SuperWorker has to implement void eat which this class doesn't need

```
interface WorkerInterface{
    public void work();
}
interface eatWorkInterface extends WorkerInterface{
    public void eat();
}
class Worker implements eatWorkInterface{
    public void work() {/* Work */}
    public void eat() {/* Eat */}
}
class SuperWorker implements WorkerInterface{
    public void work() {/* More work */}
}
class Manager{
    WorkerInterface worker;
    public void setWorker(WorkerInterface w) {
        worker = w;
    }
    public void manage() {
        worker.work();
    }
}
```

Q3



SingletonTest output:

```
No instance is required.

yes
Instance created at:1667109287474

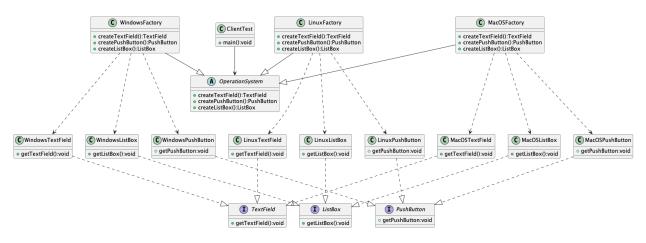
yes
Instance created at:1667109289516

yes
Instance created at:1667109291162

yes
You cannot create more than three instances.

Process finished with exit code 0
```

Q4



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This is Mac OS List Box.

This is linux Text Field.

This is linux Push Button.

This is linux List Box.

Process finished with exit code 0