Lab 7c

**package** lab7c;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

System.***out***.println("Create Boring Robot\n");

Robot r1 = **new** Robot();

System.***out***.println("Boring Robot Action:");

r1.doAction();

r1.changeState(**new** HappyState());

System.***out***.println("Happy Robot Action:");

r1.doAction();

}

}

**package** lab7c;

**public** **class** Robot {

**private** State state;

**public** Robot() {

**this**.state = **new** BoringState();

}

**public** **void** changeState(State state) {

**this**.state = state;

}

**public** **void** doAction() {

**this**.state.doAction();

}

}

**package** lab7c;

**public** **interface** State {

**public** **abstract** **void** doAction();

}

**package** lab7c;

**public** **class** HappyState **implements** State{

**public** HappyState() {

}

**public** **void** doAction() {

System.***out***.println("Robot Talk & Cook");

}

}

**package** lab7c;

**public** **class** BoringState **implements** State{

**public** BoringState() {

}

**public** **void** doAction() {

System.***out***.println("Robot Sing");

}

}