Lab 7b

**package** lab7b;

**import** java.util.Scanner;

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

**private** **static** **int** *choice*;

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

String allToppings = "Pizza with";

// **TODO** Auto-generated method stub

**do**{

System.***out***.print("========= Pizza Menu ============ \n");

System.***out***.print(" 1. Pepperoni Pizza. \n");

System.***out***.print(" 2. Sausage Pizza.\n");

System.***out***.print(" 3. Extra Cheese Pizza. \n");

System.***out***.print(" Hit any other number to leave\n");

System.***out***.print("Enter your choice: ");

Scanner scan = **new** Scanner(System.***in***);

*choice* = scan.nextInt();

**switch** (*choice*) {

**case** 1:{

Pizza pizza = **new** Pepperoni(**new** BasePizza());

allToppings += " Pepperoni";

System.***out***.println("\nOrdered " + pizza.bakePizza() + '\n');

}

**break**;

**case** 2:{

Pizza pizza = **new** Sausage(**new** BasePizza());

allToppings += " Sausage";

System.***out***.println("\nOrdered " + pizza.bakePizza() + '\n');

}

**break**;

**case** 3:{

allToppings += " Extra Cheese";

Pizza pizza = **new** ExtraCheese(**new** BasePizza());

System.***out***.println("\nOrdered " + pizza.bakePizza() + '\n');

}

**break**;

**default**:{

System.***out***.println("\nBought a " + allToppings);

System.***out***.println("\nGood Bye, see you again!");

}

**return**;

}//end of switch

}

**while**(*choice* < 4);

}

}

**package** lab7b;

**public** **interface** Pizza {

**public** String bakePizza();

}

**package** lab7b;

**public** **class** BasePizza **implements** Pizza{

**public** String bakePizza() {

**return** "Pizza";

}

}

**package** lab7b;

**public** **class** PizzaDecorator **implements** Pizza{

Pizza pizza;

String allToppings = "Pizza";

**public** PizzaDecorator(Pizza newPizza) {

pizza = newPizza;

}

**public** String bakePizza() {

**return** pizza.bakePizza();

}

**public** String getToppings() {

**return** allToppings;

}

}

**package** lab7b;

**public** **class** Sausage **extends** PizzaDecorator{

**public** Sausage(Pizza newPizza) {

**super**(newPizza);

}

**public** String bakePizza() {

**return** **super**.bakePizza() + " add Sausage";

}

}

**package** lab7b;

**public** **class** Pepperoni **extends** PizzaDecorator{

**public** Pepperoni(Pizza newPizza) {

**super**(newPizza);

}

**public** String bakePizza() {

**return** **super**.bakePizza() + " add Pepperoni";

}

}

**package** lab7b;

**public** **class** ExtraCheese **extends** PizzaDecorator{

**public** ExtraCheese(Pizza newPizza) {

**super**(newPizza);

}

**public** String bakePizza() {

**return** **super**.bakePizza() + " add Extra Cheese";

}

}