**package** car\_showroom;

//import java.util.Scanner;

**interface** utility {

**public** **void** get\_details();

**public** **void** set\_details();

}

**package** car\_showroom;

//import java.sql.SQLOutput;

**import** java.util.Scanner;

**import** java.io.File;

**import** java.io.FileWriter;

**import** java.io.IOException;

**import** java.io.BufferedReader;

**import** java.io.FileReader;

**public** **abstract** **class** showroom **implements** utility{

**protected** String showroom\_name;

**public** String showroom\_address;

**public** **int** total\_employees;

**public** **int** total\_cars\_in\_stock = 0;

**public** String manager\_name;

}

**class** show\_room **extends** showroom{

**public** **void** get\_details() {

**try** (BufferedReader reader = **new** BufferedReader(**new** FileReader("Showrooms.txt"))) {

String line;

**while** ((line = reader.readLine()) != **null**) {

System.***out***.println(line);

}

} **catch** (IOException e) {

e.printStackTrace();

}

}

@Override

**public** **void** set\_details(){

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

System.***out***.println("======================= \*\*\* ENTER SHOWROOM DETAILS \*\*\* =======================");

System.***out***.println();

System.***out***.print("SHOWROOM NAME: ");

showroom\_name = sc.nextLine();

System.***out***.print(("SHOWROOM ADDRESS: "));

showroom\_address = sc.nextLine();

System.***out***.print("MANAGER NAME: ");

manager\_name = sc.nextLine();

System.***out***.print("TOTAL NO OF EMPLOYEES: ");

total\_employees = sc.nextInt();

System.***out***.print("TOTAL CARS IN STOCK: ");

total\_cars\_in\_stock = sc.nextInt();

**try** (FileWriter writer = **new** FileWriter("Showrooms.txt",**true**)) {

writer.write("Showroom Name: " + showroom\_name + "\n");

writer.write("Showroom Address: " + showroom\_address + "\n");

writer.write("Manager Name: " + manager\_name + "\n");

writer.write("Total Employees: " + total\_employees + "\n");

writer.write("Total Cars In Stock: " + total\_cars\_in\_stock + "\n");

writer.write("\n");

writer.write("\n");

} **catch** (IOException e) {

e.printStackTrace();

}

}

}

**package** car\_showroom;

**import** java.util.Scanner;

**import** java.util.UUID;

**import** java.io.File;

**import** java.io.FileWriter;

**import** java.io.IOException;

**import** java.io.BufferedReader;

**import** java.io.FileReader;

**public** **class** Employee **extends** showroom **implements** utility{

String emp\_id;

String emp\_name;

**int** emp\_age;

String emp\_department;

@Override

**public** **void** get\_details() {

**try** (BufferedReader reader = **new** BufferedReader(**new** FileReader("Employees.txt"))) {

String line;

**while** ((line = reader.readLine()) != **null**) {

System.***out***.println(line);

}

} **catch** (IOException e) {

e.printStackTrace();

}

}

@Override

**public** **void** set\_details(){

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

UUID uuid = UUID.*randomUUID*();

emp\_id = String.*valueOf*(uuid);

System.***out***.println("======================= \*\*\* ENTER EMPLOYEE DETAILS \*\*\* =======================");

System.***out***.println();

System.***out***.print("EMPLOYEE NAME: ");

emp\_name = sc.nextLine();

System.***out***.print(("EMPLOYEE AGE: "));

emp\_age = sc.nextInt();

sc.nextLine();

System.***out***.print("EMPLOYEE DEPARTMENT: ");

emp\_department = sc.nextLine();

System.***out***.print("SHOWROOM NAME: ");

showroom\_name = sc.nextLine();

**try** (FileWriter writer = **new** FileWriter("Employees.txt",**true**)) {

writer.write("Employee Name: " + emp\_name + "\n");

writer.write("Employee Age: " + emp\_age + "\n");

writer.write("Employee Department: " + emp\_department + "\n");

writer.write("employee id: " + emp\_id + "\n");

writer.write("Showroom Name: " + showroom\_name + "\n");

writer.write("\n");

writer.write("\n");

} **catch** (IOException e) {

e.printStackTrace();

}

}

}

**package** car\_showroom;

**import** java.util.Scanner;

**import** java.io.File;

**import** java.io.FileWriter;

**import** java.io.IOException;

**import** java.io.BufferedReader;

**import** java.io.FileReader;

**public** **class** cars **extends** showroom **implements** utility{

String car\_name;

String car\_color;

String car\_fuel\_type;

**int** car\_price;

String car\_type;

String car\_transmission;

@Override

**public** **void** get\_details(){

**try** (BufferedReader reader = **new** BufferedReader(**new** FileReader("Cars.txt"))) {

String line;

**while** ((line = reader.readLine()) != **null**) {

System.***out***.println(line);

}

} **catch** (IOException e) {

e.printStackTrace();

}

}

@Override

**public** **void** set\_details(){

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

System.***out***.println("======================= \*\*\* ENTER CAR DETAILS \*\*\* =======================");

System.***out***.println();

System.***out***.print("CAR NAME: ");

car\_name = sc.nextLine();

System.***out***.print(("CAR COLOR: "));

car\_color = sc.nextLine();

System.***out***.print("CAR FUEL TYPE(PETROL/DIESEL): ");

car\_fuel\_type = sc.nextLine();

System.***out***.print("CAR PRICE: ");

car\_price = sc.nextInt();

sc.nextLine();

System.***out***.print("CAR TYPE(SEDAN/SUV/HATCHBACK): ");

car\_type = sc.nextLine();

System.***out***.print("TRANSMISSION TYPE(AUTOMATIC/MANUAL): ");

car\_transmission = sc.nextLine();

**try** (FileWriter writer = **new** FileWriter("Cars.txt",**true**)) {

writer.write("Car Name: " + car\_name + "\n");

writer.write("Car Color: " + car\_color + "\n");

writer.write("CAR FUEL TYPE(PETROL/DIESEL): " + car\_fuel\_type + "\n");

writer.write("Car Price: " + car\_price + "\n");

writer.write("CAR TYPE(SEDAN/SUV/HATCHBACK): " + car\_type + "\n");

writer.write("TRANSMISSION TYPE(AUTOMATIC/MANUAL): " + car\_transmission + "\n");

writer.write("\n");

writer.write("\n");

} **catch** (IOException e) {

e.printStackTrace();

}

}

}

**package** car\_showroom;

**import** java.util.Scanner;

**public** **class** main {

**static** **void** main\_menu(){

System.***out***.println();

System.***out***.println("======================= \*\*\* WELCOME TO SHOWROOM MANAGEMENT SYSTEM \*\*\* =======================");

System.***out***.println();

System.***out***.println("=============================== \*\*\* ENTER YOUR CHOICE \*\*\* ===============================");

System.***out***.println();

System.***out***.println("1].ADD SHOWROOMS \t\t\t 2].ADD EMPLOYEES \t\t\t 3].ADD CARS");

System.***out***.println();

System.***out***.println("4].GET SHOWROOMS \t\t\t 5].GET EMPLOYEES \t\t\t 6].GET CARS");

System.***out***.println();

System.***out***.println("=============================== \*\*\* ENTER 0 TO EXIT \*\*\* ===============================");

}

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

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

show\_room showroom[] = **new** show\_room[5];

Employee employee[] = **new** Employee[5];

cars car[] = **new** cars[5];

**int** car\_counter = 0;

**int** showroom\_counter = 0;

**int** employees\_counter = 0;

**int** choice = 100;

**while**(choice!=0){

*main\_menu*();

choice = sc.nextInt();

**do**{

**switch** (choice) {

**case** 1:

showroom[showroom\_counter] = **new** show\_room();

showroom[showroom\_counter].set\_details();

showroom\_counter++;

System.***out***.println();

System.***out***.println("1].ADD NEW SHOWROOM");

System.***out***.println("9].GO BACK TO MAIN MENU");

choice = sc.nextInt();

**break**;

**case** 2:

employee[employees\_counter] = **new** Employee();

employee[employees\_counter].set\_details();

employees\_counter++;

System.***out***.println();

System.***out***.println("2].ADD NEW EMPLOYEE");

System.***out***.println("9].GO BACK TO MAIN MENU");

choice = sc.nextInt();

**break**;

**case** 3:

car[car\_counter] = **new** cars();

car[car\_counter].set\_details();

car\_counter++;

System.***out***.println();

System.***out***.println("3].ADD NEW CAR");

System.***out***.println("9].GO BACK TO MAIN MENU");

choice = sc.nextInt();

**break**;

**case** 4:

**for** (**int** i = 0; i < showroom\_counter; i++) {

showroom[i].get\_details();

System.***out***.println();

System.***out***.println();

}

System.***out***.println();

System.***out***.println("9].GO BACK TO MAIN MENU");

System.***out***.println("0].EXIT");

choice = sc.nextInt();

**break**;

**case** 5:

**for** (**int** i = 0; i < employees\_counter; i++) {

employee[i].get\_details();

System.***out***.println();

System.***out***.println();

}

System.***out***.println();

System.***out***.println("9].GO BACK TO MAIN MENU");

System.***out***.println("0].EXIT");

choice = sc.nextInt();

**break**;

**case** 6:

**for** (**int** i = 0; i < car\_counter; i++) {

car[i].get\_details();

System.***out***.println();

System.***out***.println();

}

System.***out***.println();

System.***out***.println("9].GO BACK TO MAIN MENU");

System.***out***.println("0].EXIT");

choice = sc.nextInt();

**break**;

**default**:

System.***out***.println("ENTER VALID CHOICE: ");

**break**;

}

}

**while**(choice!=9 && choice!=0);

}

}

}