Author: Mahesh Santosh Bhakare

Employee ID: API2309

Batch: Greenfield Training Batch 31

Title: 1. Consider any 5 real time objects and create POJO classes respectively.

**Source Code -**

1. Employee.java

**package** com.apisero.greenfield;

**public** **class** Employee {

**private** String id;

**private** String name;

**private** String address;

**private** **float** salary;

**public** Employee(String id, String name, String address, **float** salary) {

**super**();

**this**.id = id;

**this**.name = name;

**this**.address = address;

**this**.salary = salary;

}

**public** String getId() {

**return** id;

}

**public** **void** setId(String id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getAddress() {

**return** address;

}

**public** **void** setAddress(String address) {

**this**.address = address;

}

**public** **float** getSalary() {

**return** salary;

}

**public** **void** setSalary(**float** salary) {

**this**.salary = salary;

}

@Override

**public** String toString() {

**return** "Employee [getId()=" + getId() + ", getName()=" + getName() + ", getAddress()=" + getAddress()

+ ", getSalary()=" + getSalary() + "]";

}

}

Main.java

**package** com.apisero.greenfield;

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

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

Employee e1 = **new** Employee("API1234", "XYZ","PQR", 460000.00f);

System.***out***.println(e1);

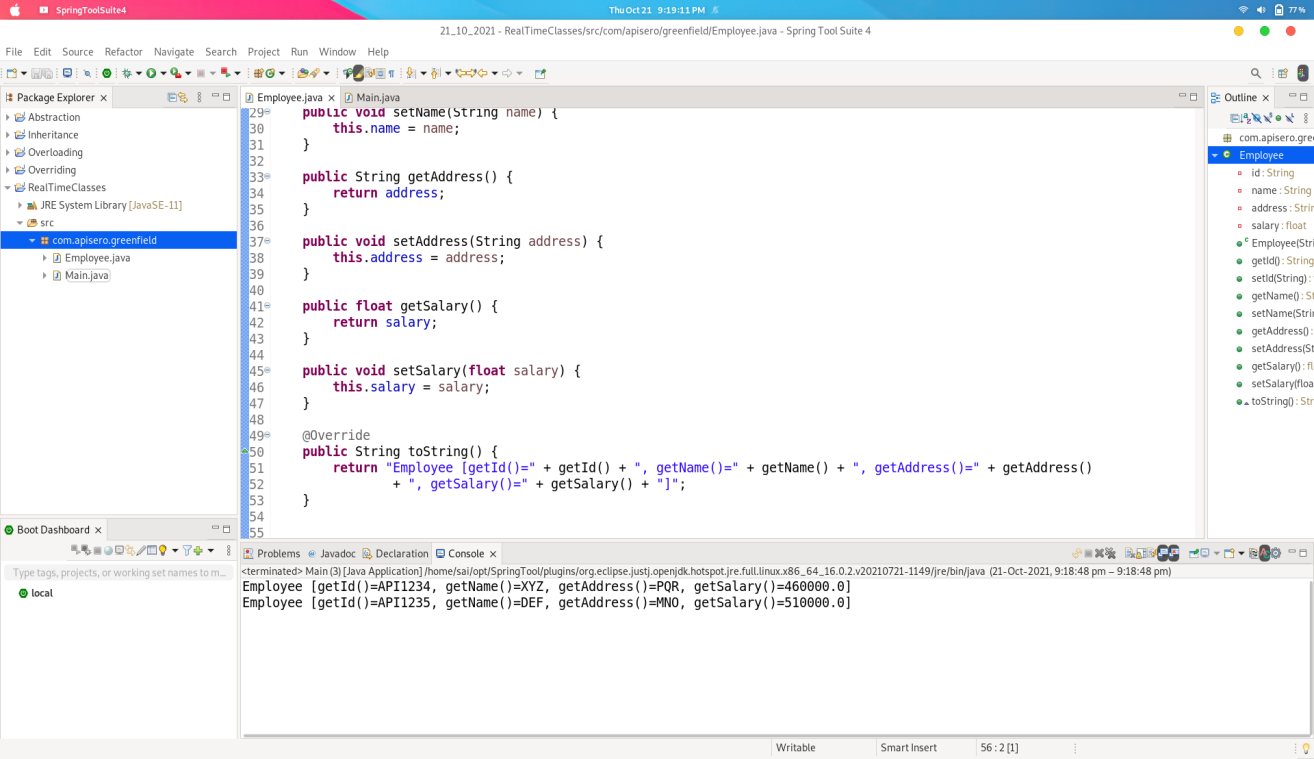
Employee e2 = **new** Employee("API1235", "DEF","MNO", 510000.00f);

System.***out***.println(e2);

}

}

**Output -**



**Source Code -**

1. BankAccount.java -

**package** com.apisero.greenfield;

**public** **class** BankAccount {

**private** **static** String *bank\_name*;

**private** String account\_no;

**private** String account\_holder\_name;

**private** String ifsc\_code;

**private** String bank\_branch;

**private** **float** balance;

**public** BankAccount(String account\_no, String account\_holder\_name, String ifsc\_code, String bank\_branch,

**float** balance) {

**super**();

**this**.account\_no = account\_no;

**this**.account\_holder\_name = account\_holder\_name;

**this**.ifsc\_code = ifsc\_code;

**this**.bank\_branch = bank\_branch;

**this**.balance = balance;

}

**public** **static** String getBank\_name() {

**return** *bank\_name*;

}

**public** **static** **void** setBank\_name(String bank\_name) {

BankAccount.*bank\_name* = bank\_name;

}

**public** String getAccount\_no() {

**return** account\_no;

}

**public** **void** setAccount\_no(String account\_no) {

**this**.account\_no = account\_no;

}

**public** String getAccount\_holder\_name() {

**return** account\_holder\_name;

}

**public** **void** setAccount\_holder\_name(String account\_holder\_name) {

**this**.account\_holder\_name = account\_holder\_name;

}

**public** String getIfsc\_code() {

**return** ifsc\_code;

}

**public** **void** setIfsc\_code(String ifsc\_code) {

**this**.ifsc\_code = ifsc\_code;

}

**public** String getBank\_branch() {

**return** bank\_branch;

}

**public** **void** setBank\_branch(String bank\_branch) {

**this**.bank\_branch = bank\_branch;

}

**public** **float** getBalance() {

**return** balance;

}

**public** **void** setBalance(**float** balance) {

**this**.balance = balance;

}

**public** **void** withdraw(**float** amount)

{

**if**((**this**.balance-amount)<0)

{

System.***out***.println("Insufficient Balance");

}

**else**

{

**this**.balance-=amount;

}

}

**public** **void** diposit(**float** amount)

{

**this**.balance+=amount;

}

@Override

**public** String toString() {

**return** "BankAccount [getAccount\_no()=" + getAccount\_no() + ", getAccount\_holder\_name()="

+ getAccount\_holder\_name() + ", getIfsc\_code()=" + getIfsc\_code() + ", getBank\_branch()="

+ getBank\_branch() + ", getBalance()=" + getBalance() + "]";

}

}

BankMain.java

**package** com.apisero.greenfield;

**public** **class** BankMain {

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

BankAccount.*setBank\_name*("ICICI Bank Pvt. Ltd");

BankAccount mahesh = **new** BankAccount("123245671234","Mahesh Bhakare","ICIC0002345","Kopargaon",1000.00f);

System.***out***.print("Initial Status: ");

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

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

mahesh.withdraw(500.00f);

System.***out***.print("Status after withdraw: ");

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

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

mahesh.diposit(5000);

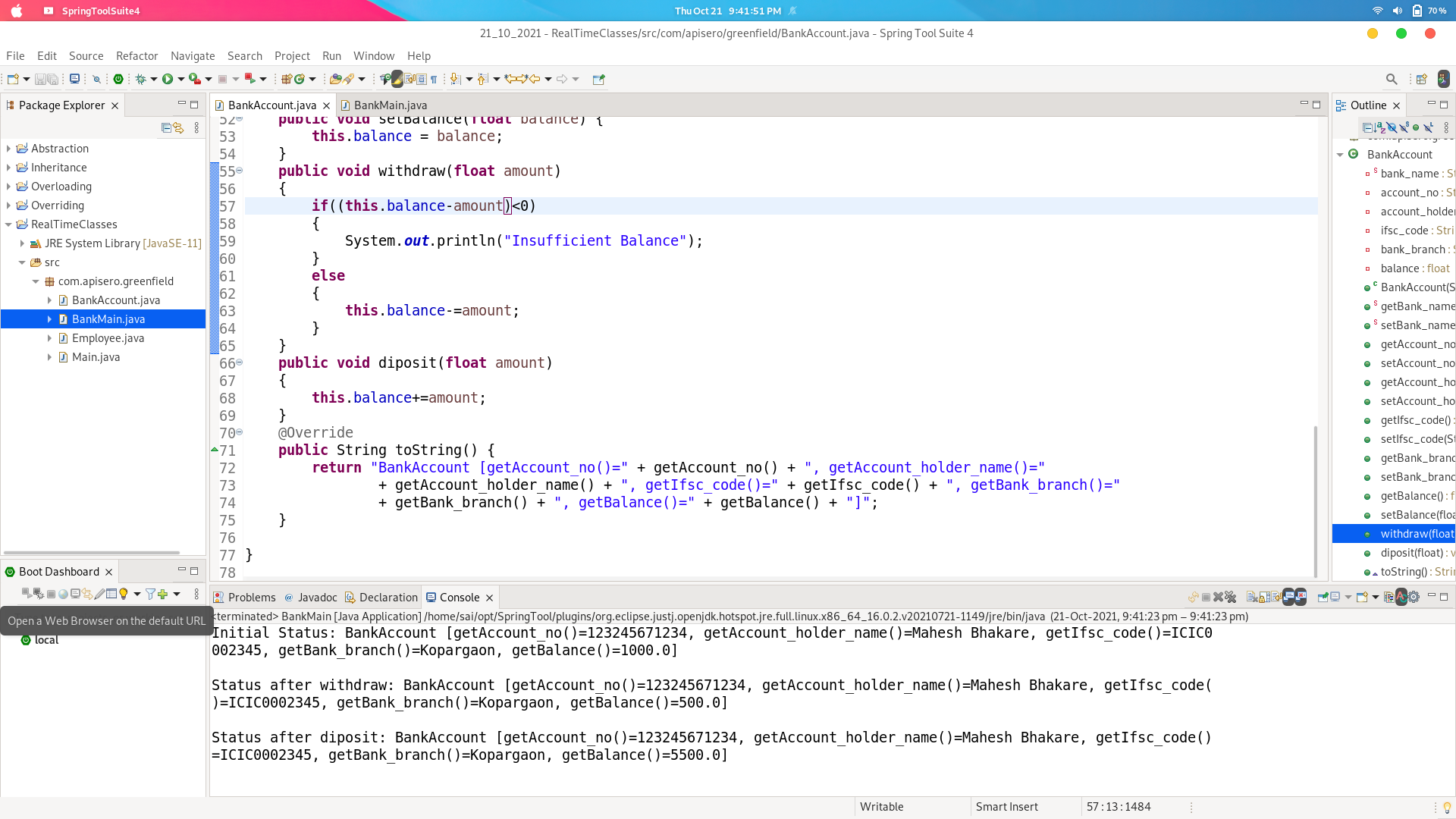
System.***out***.print("Status after diposit: ");

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

}

}

**Output -**



**Source Code -**

1. Bike.java -

**package** com.apisero.greenfield;

**public** **class** Bike {

**private** String Bike\_no;

**private** String Chassis\_no;

**private** String Owner\_Name;

**private** String Ownned\_Date;

**public** Bike(String bike\_no, String chassis\_no, String owner\_Name, String ownned\_Date) {

**super**();

Bike\_no = bike\_no;

Chassis\_no = chassis\_no;

Owner\_Name = owner\_Name;

Ownned\_Date = ownned\_Date;

}

**public** String getBike\_no() {

**return** Bike\_no;

}

**public** **void** setBike\_no(String bike\_no) {

Bike\_no = bike\_no;

}

**public** String getChassis\_no() {

**return** Chassis\_no;

}

**public** **void** setChassis\_no(String chassis\_no) {

Chassis\_no = chassis\_no;

}

**public** String getOwner\_Name() {

**return** Owner\_Name;

}

**public** **void** setOwner\_Name(String owner\_Name) {

Owner\_Name = owner\_Name;

}

**public** String getOwnned\_Date() {

**return** Ownned\_Date;

}

**public** **void** setOwnned\_Date(String ownned\_Date) {

Ownned\_Date = ownned\_Date;

}

@Override

**public** String toString() {

**return** "Bike [getBike\_no()=" + getBike\_no() + ", getChassis\_no()=" + getChassis\_no() + ", getOwner\_Name()="

+ getOwner\_Name() + ", getOwnned\_Date()=" + getOwnned\_Date() + "]";

}

}

BikeMain.java

**package** com.apisero.greenfield;

**public** **class** BikeMain {

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

Bike pulsur = **new** Bike("MH12BH1234", "qwer2345rtyu", "XYZ", "21-10-2021");

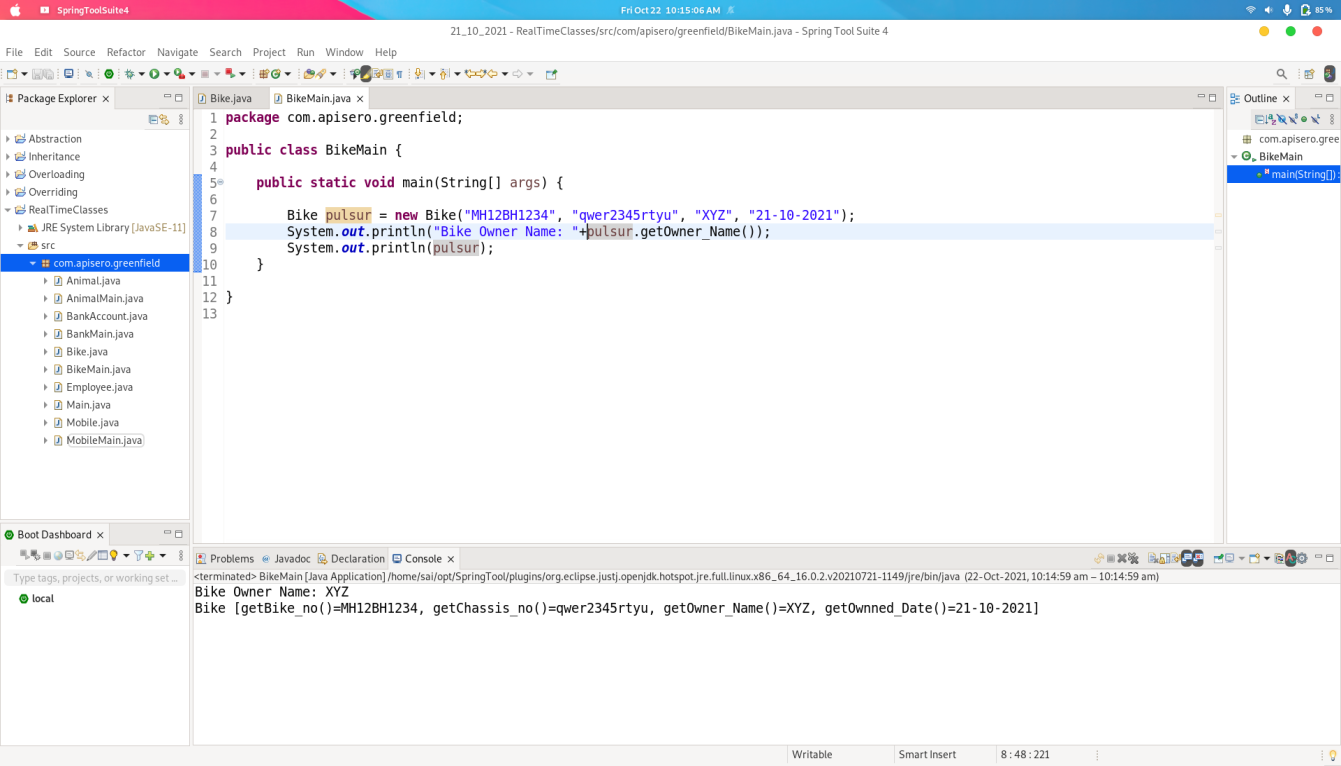
System.***out***.println(pulsur.getOwner\_Name());

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

}

}

**Output:**



**Source Code -**

Animal.java

**package** com.apisero.greenfield;

**public** **class** Animal {

**private** String animal\_name;

**private** String catagory;

**private** String eating\_habit;

**public** Animal(String animal\_name, String catagory, String eating\_habit) {

**super**();

**this**.animal\_name = animal\_name;

**this**.catagory = catagory;

**this**.eating\_habit = eating\_habit;

}

**public** String getAnimal\_name() {

**return** animal\_name;

}

**public** **void** setAnimal\_name(String animal\_name) {

**this**.animal\_name = animal\_name;

}

**public** String getCatagory() {

**return** catagory;

}

**public** **void** setCatagory(String catagory) {

**this**.catagory = catagory;

}

**public** String getEating\_habit() {

**return** eating\_habit;

}

**public** **void** setEating\_habit(String eating\_habit) {

**this**.eating\_habit = eating\_habit;

}

@Override

**public** String toString() {

**return** "Animal [animal\_name=" + animal\_name + ", catagory=" + catagory + ", eating\_habit=" + eating\_habit + "]";

}

}

AnimalMain.java

**package** com.apisero.greenfield;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** AnimalMain {

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

List<Animal> s = **new** ArrayList<Animal>();

s.add(**new** Animal("Tiger", "Mammals", "Non\_Vegeterian"));

s.add(**new** Animal("Lion", "Mammals", "Non\_Vegeterian"));

s.add(**new** Animal("Cow", "Mammals", "Vegeterian"));

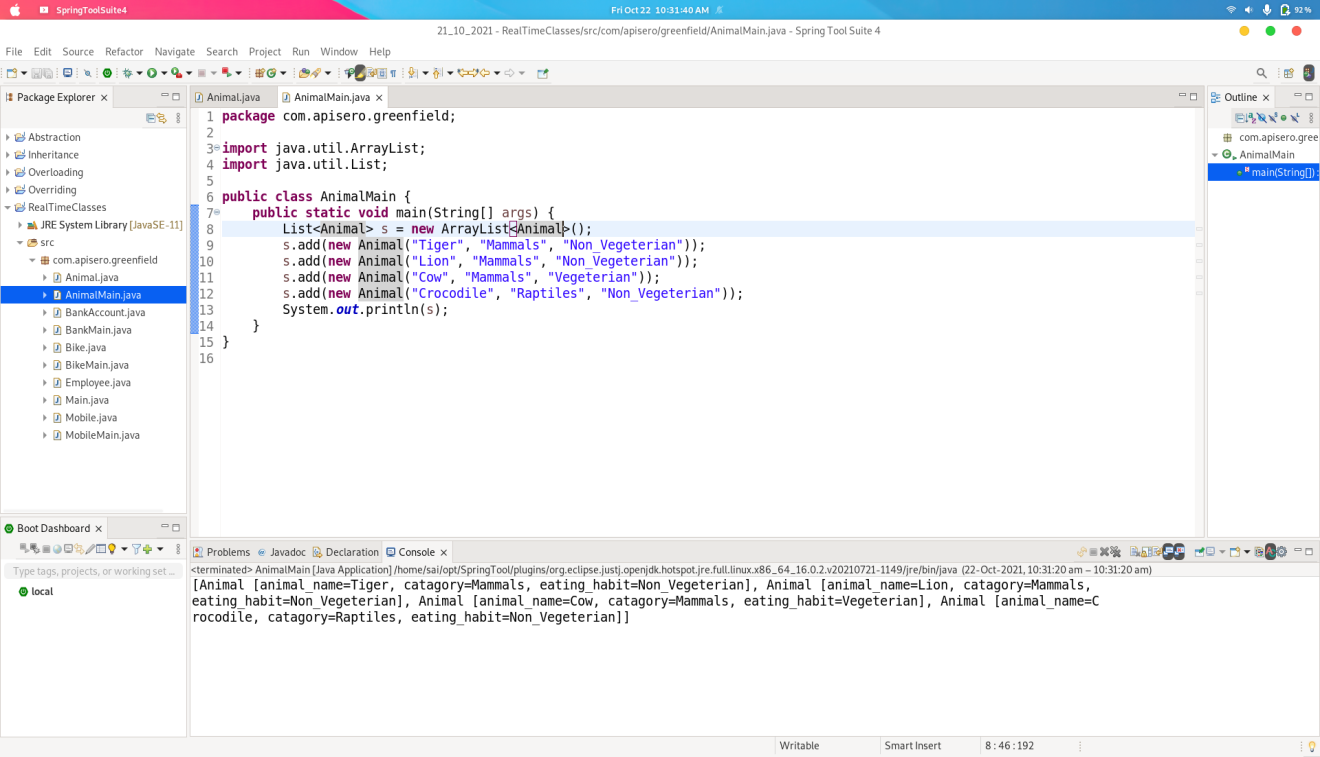
s.add(**new** Animal("Crocodile", "Raptiles", "Non\_Vegeterian"));

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

}

}

**Output:**



**Source Code:**

Mobile.java

**package** com.apisero.greenfield;

**public** **class** Mobile {

**private** String Name;

**private** String model\_no;

**private** String release\_date;

**private** **int** ram;

**private** **int** rom;

**private** String processor;

**public** Mobile(String name, String model\_no, String release\_date, **int** ram, **int** rom, String processor) {

**super**();

Name = name;

**this**.model\_no = model\_no;

**this**.release\_date = release\_date;

**this**.ram = ram;

**this**.rom = rom;

**this**.processor = processor;

}

**public** String getName() {

**return** Name;

}

**public** **void** setName(String name) {

Name = name;

}

**public** String getModel\_no() {

**return** model\_no;

}

**public** **void** setModel\_no(String model\_no) {

**this**.model\_no = model\_no;

}

**public** String getRelease\_date() {

**return** release\_date;

}

**public** **void** setRelease\_date(String release\_date) {

**this**.release\_date = release\_date;

}

**public** **int** getRam() {

**return** ram;

}

**public** **void** setRam(**int** ram) {

**this**.ram = ram;

}

**public** **int** getRom() {

**return** rom;

}

**public** **void** setRom(**int** rom) {

**this**.rom = rom;

}

**public** String getProcessor() {

**return** processor;

}

**public** **void** setProcessor(String processor) {

**this**.processor = processor;

}

@Override

**public** String toString() {

**return** "Mobile [Name=" + Name + ", model\_no=" + model\_no + ", release\_date=" + release\_date + ", ram=" + ram

+ ", rom=" + rom + ", processor=" + processor + "]";

}

}

MobileMain.java

**package** com.apisero.greenfield;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** MobileMain {

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

List<Mobile> l = **new** ArrayList<Mobile>();

l.add(**new** Mobile("Samsung", "Note10", "12-10-2018", 6, 128, "Snapdragon 855+"));

l.add(**new** Mobile("Xiaomi", "POCO F1", "22-09-2017", 6, 128, "Snapdragon 845"));

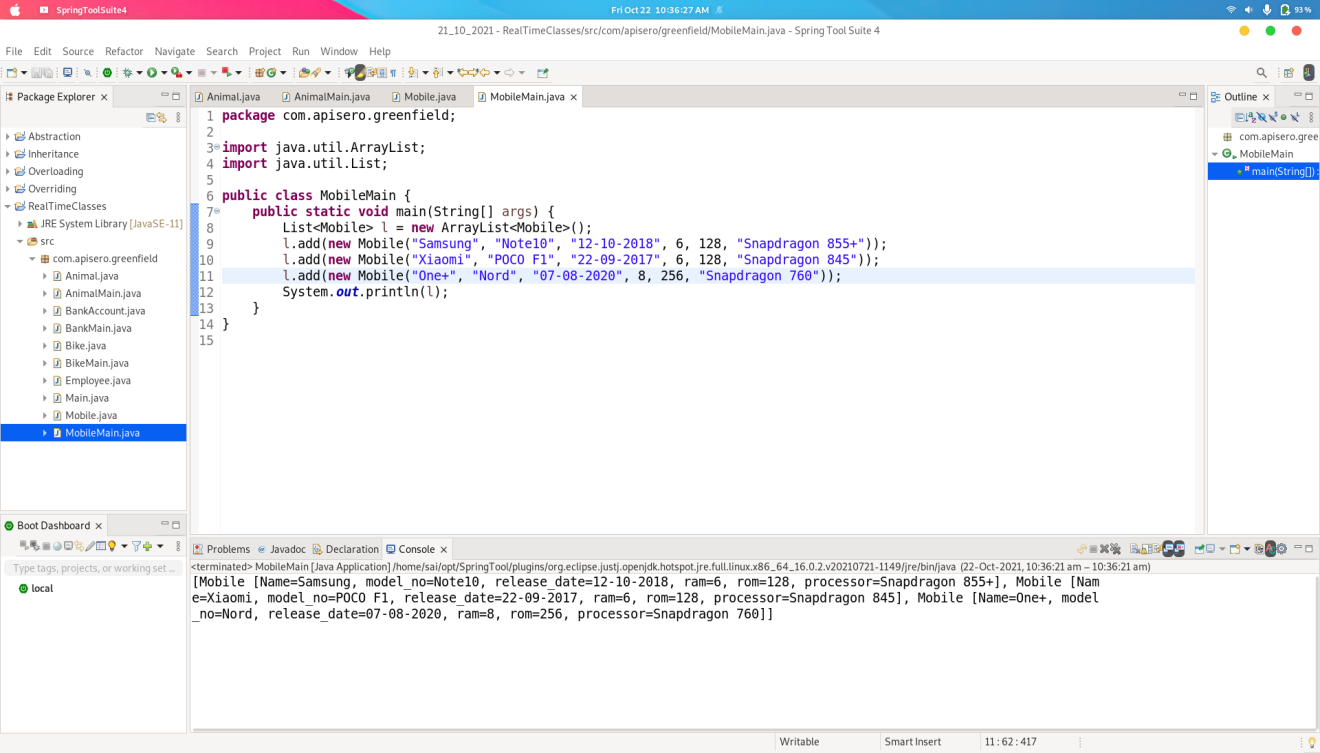
l.add(**new** Mobile("One+", "Nord", "07-08-2020", 8, 256, "Snapdragon 760"));

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

}

}

**Output:**



Title: 2. Create basic calculator in java.

**Source Code:**

Calculator.java

**package** com.apisero.greenfield;

**public** **class** Calculator {

**private** **int** value1;

**private** **int** value2;

**public** Calculator(**int** value1, **int** value2) {

**super**();

**this**.value1 = value1;

**this**.value2 = value2;

}

**public** **int** getValue1() {

**return** value1;

}

**public** **void** setValue1(**int** value1) {

**this**.value1 = value1;

}

**public** **int** getValue2() {

**return** value2;

}

**public** **void** setValue2(**int** value2) {

**this**.value2 = value2;

}

**public** **int** add()

{

**return** value1+value2;

}

**public** **int** sub()

{

**return** value1-value2;

}

**public** **int** mult()

{

**return** value1\*value2;

}

**public** **int** divide()

{

**return** value1/value2;

}

}

Main.java

**package** com.apisero.greenfield;

**import** java.util.Scanner;

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

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

**int** choice,value1,value2;

**char** ch;

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

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

System.***out***.print("Enter Value 1: ");

value1 = sc.nextInt();

System.***out***.print("Enter Value 2: ");

value2 = sc.nextInt();

Calculator c = **new** Calculator(value1,value2);

**do**

{

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

System.***out***.print("1. Addition\n2. Substraction\n3. Multiplication\n4. Division\n Enter Your Choice: ");

choice = sc.nextInt();

**switch**(choice)

{

**case** 1:

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

**break**;

**case** 2:

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

**break**;

**case** 3:

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

**break**;

**case** 4:

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

**break**;

**default**:

System.***out***.println("Enter Proper Choice....");

}

System.***out***.print("Do you want to Continue: ");

ch = sc.next().charAt(0);

}**while**(ch == 'y');

}

}

**Output:**

