

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() + "]\n";
    }
}
```

```
}
```

Main.java

```
package com.apisero.greenfield;
```

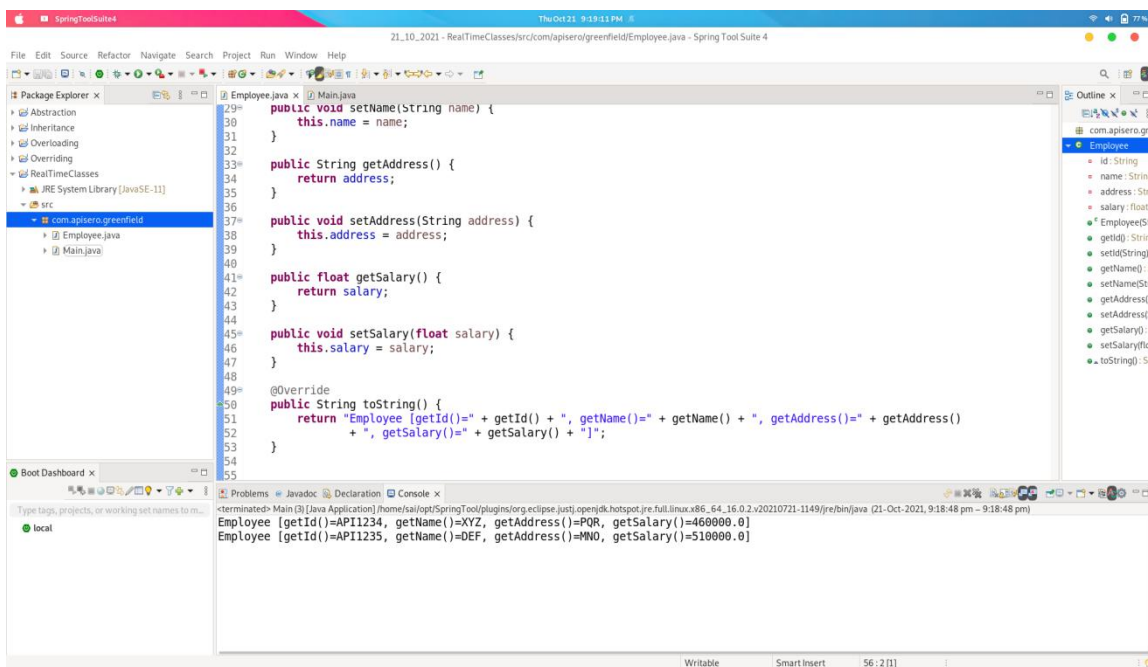
```
public class Main {
```

```
    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 -

2) 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 -

The screenshot shows the SpringToolSuite4 IDE with the following components:

- Package Explorer:** Shows the project structure with 'BankMain.java' selected.
- Editor:** Displays the code for 'BankMain.java' and 'BankAccount.java'. The 'BankMain.java' code is as follows:


```

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);
    }
}

```
- Outline:** Shows the class hierarchy and methods for 'BankAccount'.
- Console:** Displays the output of the program:


```

Initial Status: BankAccount [getAccount_no()=123245671234, getAccount_holder_name()=Mahesh Bhakare, getIfsc_code()=ICIC0002345, getBank_branch()=Kopargaon, getBalance()=1000.0]

Status after withdraw: BankAccount [getAccount_no()=123245671234, getAccount_holder_name()=Mahesh Bhakare, getIfsc_code()=ICIC0002345, getBank_branch()=Kopargaon, getBalance()=500.0]

Status after diposit: BankAccount [getAccount_no()=123245671234, getAccount_holder_name()=Mahesh Bhakare, getIfsc_code()=ICIC0002345, getBank_branch()=Kopargaon, getBalance()=5500.0]

```

Source Code -

3) 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;
    }
}

```

```

        Ownedn_Date = ownedn_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 getOwnedn_Date() {
        return Ownedn_Date;
    }
    public void setOwnedn_Date(String ownedn_Date) {
        Ownedn_Date = ownedn_Date;
    }

    @Override
    public String toString() {
        return "Bike [getBike_no()=" + getBike_no() + ", getChassis_no()=" + getChassis_no() + ",
getOwner_Name()="
        + getOwner_Name() + ", getOwnedn_Date()=" + getOwnedn_Date() + "];"
    }

}

```

BikeMain.java

```

package com.apisero.greenfield;

public class BikeMain {

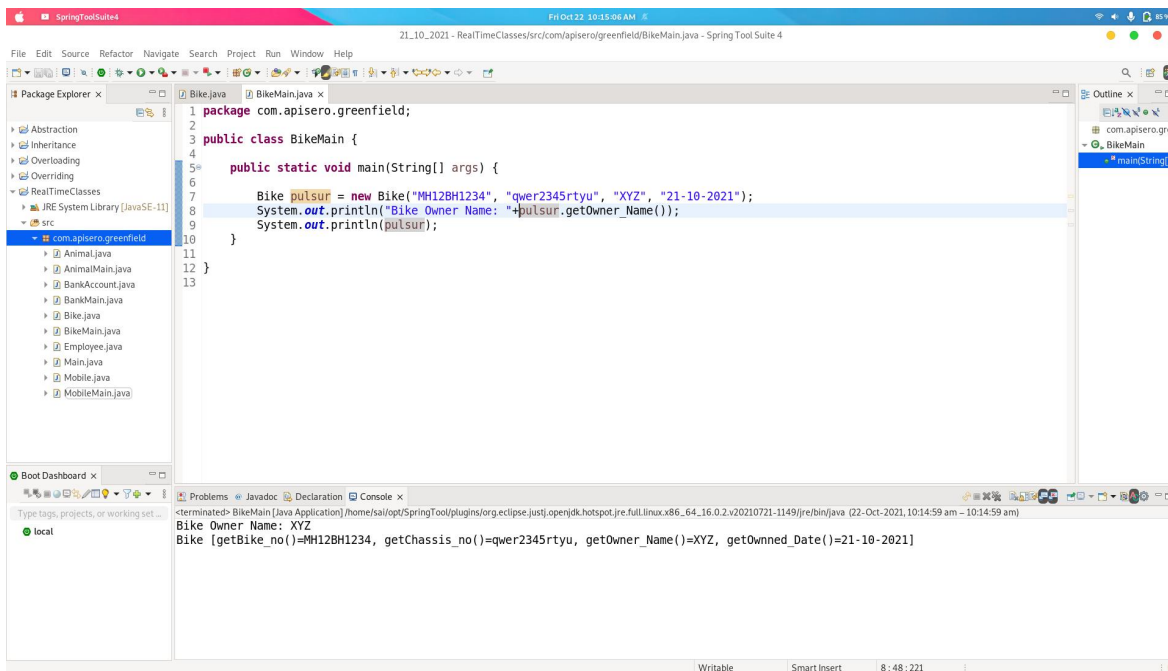
    public static void main(String[] args) {

        Bike pulsar = new Bike("MH12BH1234", "qwer2345rtyu", "XYZ", "21-10-2021");
        System.out.println(pulsar.getOwner_Name());
        System.out.println(pulsar);
    }

}

```

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 + "]\n";
    }
}

```

```
}
```

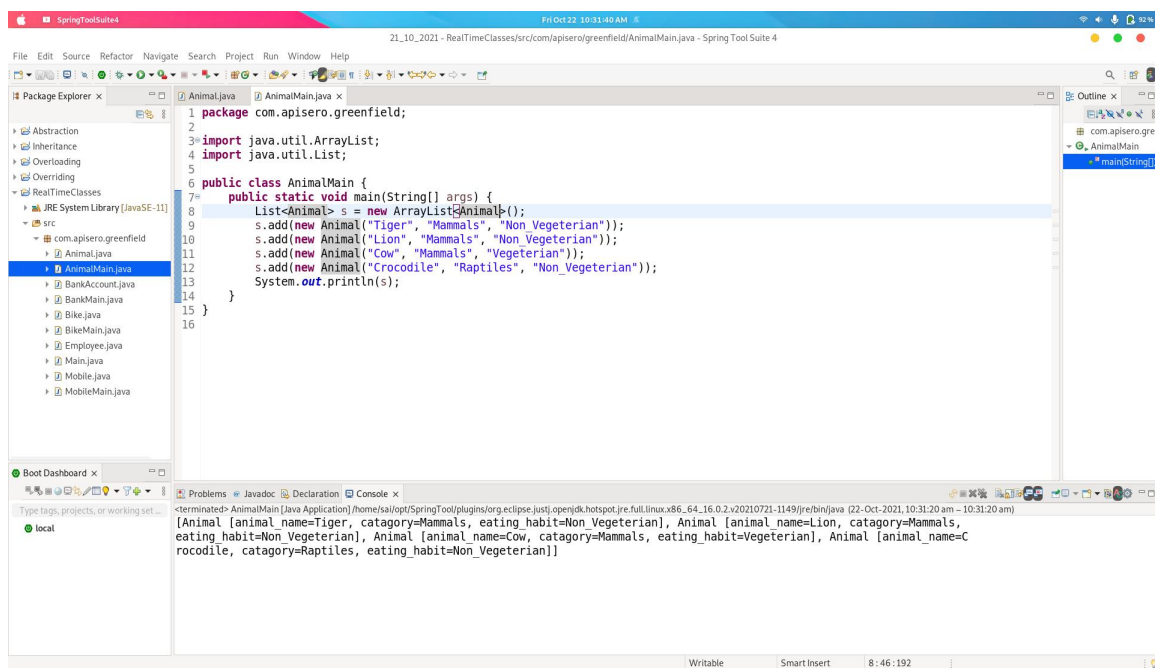
AnimalMain.java

```
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_Vegetarian"));
        s.add(new Animal("Lion", "Mammals", "Non_Vegetarian"));
        s.add(new Animal("Cow", "Mammals", "Vegetarian"));
        s.add(new Animal("Crocodile", "Raptiles", "Non_Vegetarian"));
        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>();
    }
}

```

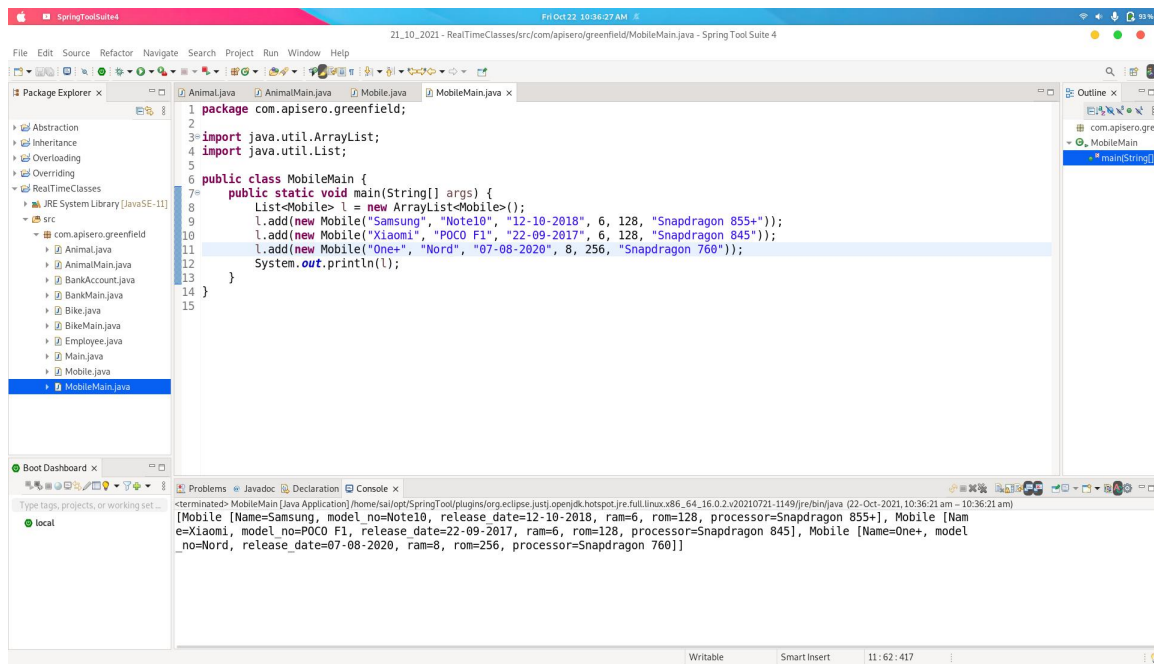


```

        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:

