LetsUpgrade Java Essentials Assignment - 5

Questions 1:

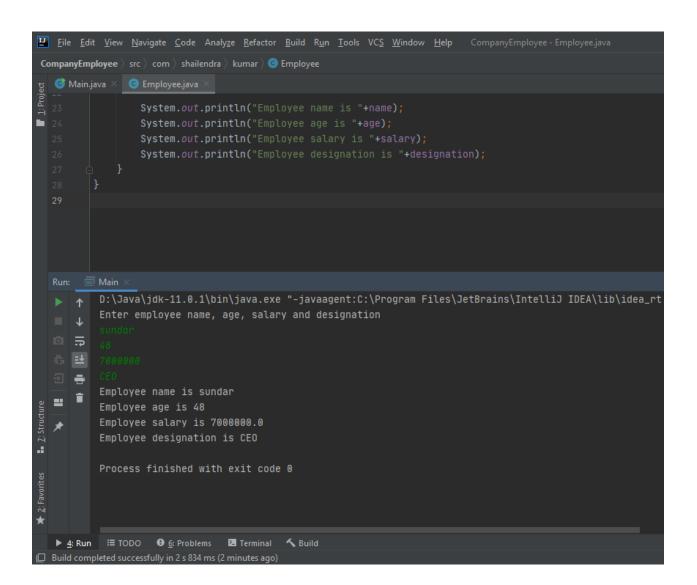
Create a parent class for different employees with common details name, age, salary, designation, and methods to get details and display details.

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help CompanyEmployee - Main.java
CompanyEmployee > src > com > shailendra > kumar > © Main
ਰੂ 🌀 Main.java 🗡 💿 Employee.java
           package com.shailendra.kumar;
               public static void main(String[] args) {
                    Employee emp= new Employee();
                    emp.getDetails();
                    emp.displayDetails();
   ▶ <u>4</u>: Run ∷ TODO 9 <u>6</u>: Problems
                                                 Build

    Terminal

Build completed successfully in 5 s 344 ms (2 minutes ago)
```

```
🖳 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Anal<u>yze R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S</u> <u>W</u>indow <u>H</u>elp - CompanyEmployee-Employee.java
Main.java × Employee.java ×
package com.shailend
import java util
 CompanyEmployee > src > com > shailendra > kumar > © Employee
             package com.shailendra.kumar;
             public class Employee {
                   Scanner sc = new Scanner(System.in);
                  public void getDetails(){
                        name=sc.next();
                        salary=sc.nextDouble();
                  public void displayDetails(){
                        System.out.println("Employee name is "+name);
                        System.out.println("Employee age is "+age);
     ▶ <u>4</u>: Run ≔ TODO 9 <u>6</u>: Problems 🗷 Terminal 🔨 Build
☐ Build completed successfully in 5 s 344 ms (2 minutes ago)
```



Questions 2:

Create three child classes one for the doctor, one for an engineer, and one for pilots and include their different operations in respective classes.

```
<u>II File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window H</u>elp
Inheritance ⟩ src ⟩ com ⟩ shailendra ⟩ kumar ⟩ ⓒ Main
   © Main.java × □ Doctor.java × □ Engineer.java ×
                                                    Pilots.java
           package com.shailendra.kumar;
                public static void main(String[] args) {
                    Doctor doctor= new Doctor();
                    Engineer engineer= new Engineer();
   ▶ <u>4</u>: Run 9 <u>6</u>: Problems \ Build \ \ TODO
                                               ■ Terminal
All files are up-to-date (a minute ago)
```

```
© Main.java × © Doctor.java × © Engineer.java × © Pilots.java × package com.shailendra.kumar;
 File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Inheritance - Doctor, java
              public class Doctor {
                  public Doctor(){
 ¥ 2: Favorites ■ 7: Structure
     ▶ <u>4</u>: Run 9 <u>6</u>: Problems ५ Build ! TODO ! Terminal
All files are up-to-date (a minute ago)
```

```
🛂 File Edit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S W</u>indow <u>H</u>elp Inheritance - Engineer.java
 Inheritance ⟩ src ⟩ com ⟩ shailendra ⟩ kumar ⟩ © Engineer ⟩ ® Engineer
| Main.java × © Doctor.java × © Engineer.java × © Pilots.java × | package com.shailendra.kumar;
              public class Engineer {
              public Engineer(){
                          System.out.println("This is an Engineer class");
¥ 2: Favorites ■ 7: Structure
     ▶ 4: Run 🛛 6: Problems 🔨 Build 🖽 TODO 🔼 Terminal
```

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Inheritance - Pilots, java
          public class Pilots {
         public Pilots(){
¥ 2: Favorites ▮ 7: Structure
    ▶ <u>4</u>: Run 9 <u>6</u>: Problems ५ Build ! TODO 2 Terminal
☐ All files are up-to-date (a minute ago)
```

```
🖳 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S W</u>indow <u>H</u>elp Inheritance-Pilots.java
## Com / Shailendra / kumar / © Pilots

| Com / Shailendra / kumar / © Pilots
| Com / Shailendra / kumar / © Pilots
| Com / Shailendra / kumar / © Pilots,java × © Pilots
                        public Pilots(){
                     D:\Java\jdk-11.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA\lib\i
                     This is an Engineer class
                     This is a Pilots class
                     Process finished with exit code 0
      ==
```

Questions 3:

In the main method create an array of objects for three of them get the details and print for all the objects.

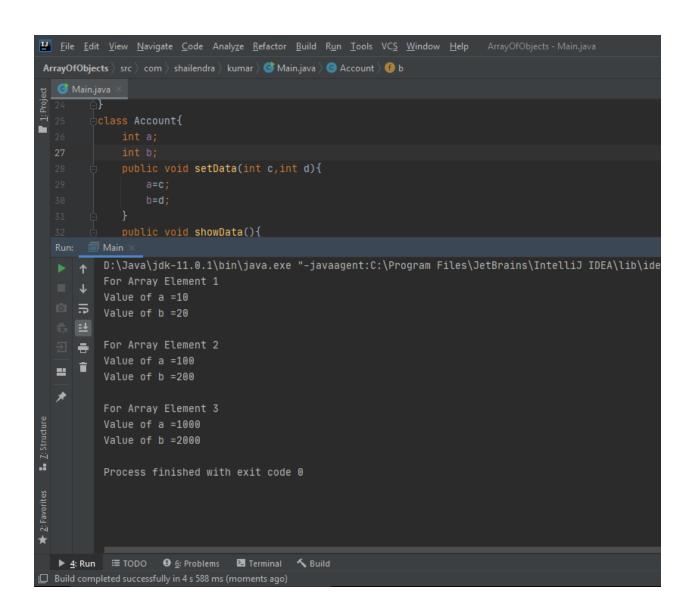
```
🛂 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analyze <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S W</u>indow <u>H</u>elp - ArrayOfObjects - Main.java
package com.shailendra.kumar;
               public static void main(String[] args) {
                    Account[] obj = new Account[3];
                    obj[0].setData( c: 10, d: 20);
                    System.out.println("For Array Element 1");
                    obj[0].showData();
                    obj[1].setData( c: 100, d: 200);
                    obj[1].showData();
                    obj[2] = new Account();
                    obj[2].setData( c: 1000, d: 2000);
                    obj[2].showData();
               public void setData(int c,int d){
   ▶ <u>4</u>: Run III TODO 9 <u>6</u>: Problems III Terminal √ Build

    Build completed successfully in 8 s 90 ms (a minute ago)
```

```
🖳 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analyze <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S W</u>indow <u>H</u>elp — ArrayOfObjects - Main.java
# C Main.java ×

## 15

## 16
                    obj[1].setData( c: 100, d: 200);
                    System.out.println("\nFor Array Element 2");
                    obj[1].showData();
                    System.out.println("\nFor Array Element 3");
                    obj[2].showData();
               public void setData(int c,int d){
                    b=d;
               public void showData(){
                    System.out.println("Value of a ="+a);
                    System.out.println("Value of b ="+b);
   ▶ 4: Run ≔ TODO 😝 6: Problems 🛂 Terminal 🔨 Build
Build completed successfully in 8 s 90 ms (a minute ago)
```



Questions 4:

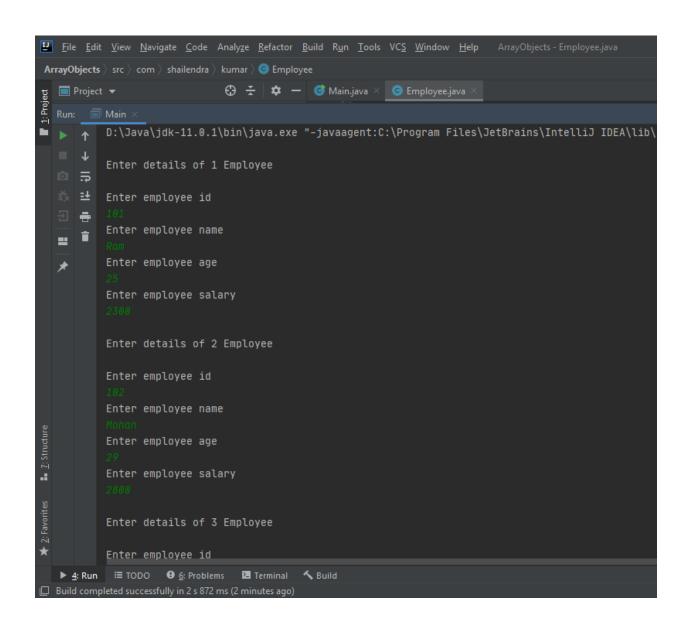
Array of 3 objects for each type of employee.

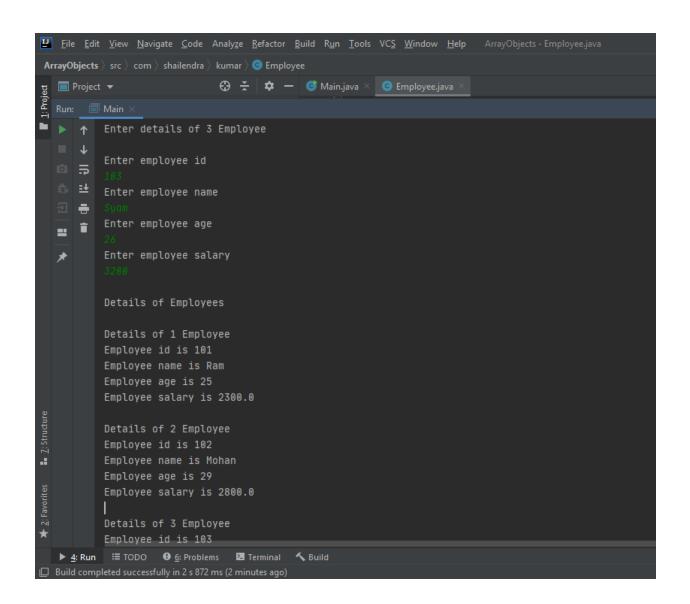
```
🖳 <u>File Edit View N</u>avigate <u>C</u>ode Analy<u>ze R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S W</u>indow <u>H</u>elp ArrayObjects - Main.java
 ArrayObjects > src > com > shailendra > kumar >  Main >  main
Main.java × © Employee.java / package com.shailen
                   public static void main(String[] args) {
                         Employee[] emp = new Employee[3];
                         for(<u>i</u>=0;<u>i</u><3;<u>i</u>++)
                               emp[\underline{i}] = new Employee();
                         for(<u>i</u>=0;<u>i</u><3;<u>i</u>++)
                               System.out.print("\nEnter details of "+ (\underline{i}+1) +" Employee\n");
                               emp[i].GetData();
                         System.out.print("\nDetails of Employees\n");
 🚹 🔃 Structure
                         for(<u>i</u>=0;<u>i</u><3;<u>i</u>++) {
                               System.out.print("\nDetails of "+ (<u>i</u>+1) +" Employee\n");
                               emp[<u>i</u>].PutData();
     ▶ <u>4</u>: Run ≔ TODO ⊕ <u>6</u>: Problems
                                              🗷 Terminal 🔨 Build
■ Build completed successfully in 2 s 872 ms (6 minutes ago)
```

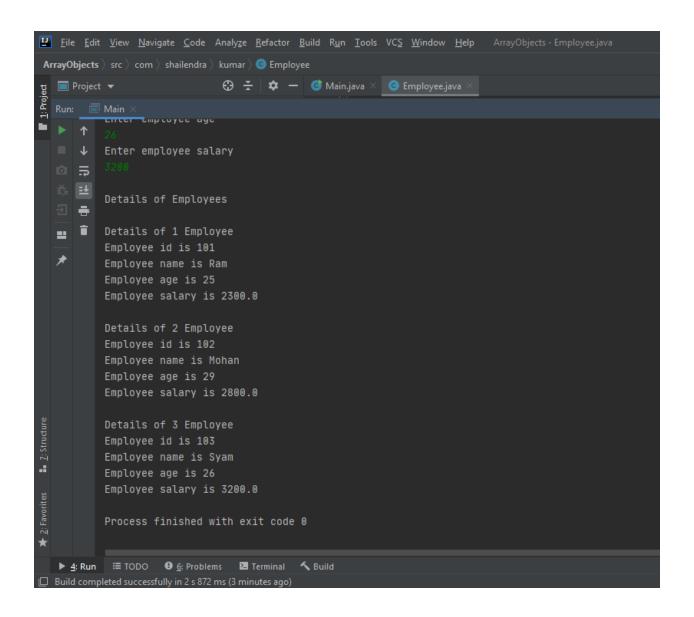
```
🖳 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode Analy<u>z</u>e <u>R</u>efactor <u>B</u>uild R<u>u</u>n <u>T</u>ools VC<u>S</u> <u>W</u>indow <u>H</u>elp  ArrayObjects - Employee.java
Main.java × © Employee.java ×

package com.shailendr

import java.util com.
 ArrayObjects ⟩ src ⟩ com ⟩ shailendra ⟩ kumar ⟩ ⑤ Employee
             package com.shailendra.kumar;
             import java.util.Scanner;
             public class Employee {
                  String name;
                  void GetData()
                       Scanner sc = new Scanner(System.in);
                       System.out.println("\nEnter employee id");
                       id=sc.nextInt();
                       name=sc.next();
                       age=sc.nextInt();
                       System.out.println("Enter employee salary");
                       salary=sc.nextDouble();
                  void PutData()
                       System.out.print("Employee id is "+id);
                       System.out.print("\nEmployee name is "+name);
                       System.out.print("\nEmployee age is "+age);
     ▶ <u>4</u>: Run ∷ TODO 9 <u>6</u>: Problems
                                          ™ Terminal 🥎 Build
☐ Build completed successfully in 2 s 872 ms (7 minutes ago)
```







By Shailendra Kumar

Part of LetsUpgrade Family