**Example 9**

**Part1: Create Date class with following members:**

* **Three private integer instance variables day , month and year.**
* **a constructor that initializes the class attributes.**
* **set method for each attribute to make sure that the value for each one is correct knowing that the valid values for year are from 1990 to the current year.**
* **get method for each attribute.**
* **toString method that returns a string that represents the date for the current object in the following format:   DD-MM-YYYY.**

**Part2:** **Create Employee class with following members:**

* **four public attributes: id (integer), name and job (String) and hire (reference of type Date class) that represent the hire date for the employee.**
* **a constructor that initializes the class attributes.**
* **toString method that returns a string that represents the current object employee name, job and hire date.**

**Part3: in main method:**

* **create a date object which represents the following date: 22-10-2015.**
* **change the month of the above object to 15.**
* **change the day of the above object to 45.**
* **create an object from employee class with following values: id= 2211, name = “Sami”,  job = “programmer”, hire date is the same date of above object.**
* **create an object from employee class with following values: id= 1231, name = “Jamal”,  job = “Web Developer”, hire date = 11-5-2019.**
* **create an object from employee class with following values: id= 5531, name = “Jalal”,  job = “Admin”, hire date = 4-11-2009.**
* **print each of the above employee information using the toString method.**
* **Draw all objects created above and its content.**

**public class Date {**

 **private int day , month, year;**

 **public Date(int day ,int month,int year)**

 **{**

 **this.day= day; this.month= month; this.year= year;**

 **}**

 **public void setDay(int d)**

 **{**

 **if(d>0 && d<=31)**

 **day = d;**

 **else**

 **System.out.println("day value is not correct");**

 **}**

 **public void setMonth(int m)**

 **{**

 **if(m>0 && m<=12)**

 **month = m;**

 **else**

 **System.out.println("month value is not correct");**

 **}**

 **public void setYear(int y)**

 **{**

 **if(y>=1990 && y<=2024)**

 **year = y;**

 **else**

 **System.out.println("year value is not correct");**

 **}**

 **public int getDay(){return day;}**

 **public int getMonth(){return month;}**

 **public int getYear(){return year;}**

 **public String toString()**

 **{**

 **return day+"-"+month+"-"+year;**

 **}**

**}**

**public class Employee {**

 **public int id;**

 **public String name;**

 **public String job;**

 **public Date hire;**

 **public Employee(int i, String n,String j,Date h)**

 **{**

 **id = i; name =n; job =j;**

 **hire = h;**

 **}**

 **public String toString()**

 **{**

 **return "name: "+name+" job: "+job+"hire date:"+hire;**

 **}**

**}**

**public class JavaApplication45 {**

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

 **Date d1 = new Date(22,10,2015);**

 **System.out.println(d1);**

 **d1.setMonth(15);**

 **d1.setDay(45);**

 **System.out.println(d1);**

 **Employee e1 = new Employee(2211,"Sami","programmer",d1);**

 **Employee e2 = new Employee(1231,"Jamal","Web Developer",new Date(11,5,2019));**

 **Employee e3 = new Employee(5531,"Jalal","Admin",new Date(4,11,2009));**

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

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

 **System.out.println(e3);**

 **}**

**}**