**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);**

**}**

**}**