COMSATS UNIVERSITY ISLAMABAD, LAHORE CAMPUS



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Class: OOP

Assignment: Lab Assignment 2

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Date: 28th March 2023

Task 1:

Make a class Address that have three attributes, streetNumber, city and country. All attributes are private

and will be exposed using getter and setter method.

Make a class Date with three attributes, day, month and year. All attribute are private. In constructor, you

have to validate day. If day is out of range, you have to print a message, “Invalid Date”. Suppose all

months have 30 days.

Make a class Employee that has four instance variable id, name, birthdate and address. The class has also

display function that display all the information of an Employee. Id is integer, name is a reference to

String object while birthdate is reference to Date object and address is reference to Address object. All

instance variable are private. Employee class has a fully parameterized constructor.

Make another class EmployeeTest, in main method, instantiate an employee object named employee1.

Initialize id and address attribute using constructor. The attribute name and birthday should be initialized

using the setter method. Get all values from the user. Print all values using display method.

/\* Paste Code here\*/

**CODE:**

import java.util.Scanner;  
  
public class LabAssign2\_Task1 {  
 public static void main(String[] args) {  
  
 Scanner scn = new Scanner(System.*in*);  
  
 System.*out*.print("Enter Employee ID: ");  
 int id = scn.nextInt();  
 System.*out*.print("Enter Employee Name: ");  
 String name = scn.next();  
  
 System.*out*.print("Enter Birthday in Order: ");  
 System.*out*.println("Enter Date:");  
 int day = scn.nextInt();  
 System.*out*.println("Enter Month:");  
 int month = scn.nextInt();  
 System.*out*.println("Enter Year:");  
 int year = scn.nextInt();  
  
 *//Making an Object Here of Class Date and Giving Values in Constructor* date BirthDate = new date(day, month, year);  
 Address add = new Address();  
  
 *//Now Taking Value for Address* System.*out*.print("Enter Employee street number: ");  
 add.setStreetNumber(scn.nextInt());  
  
 System.*out*.print("Enter Employee city: ");  
 add.setCity(scn.next());  
  
 System.*out*.print("Enter country: ");  
 add.setCountry(scn.next());  
  
 *// create employee object and display information* Employee employee1 = new Employee(id , );  
  
 employee1.setName(name);  
 employee1.setBirthDate(day);  
  
  
 employee1.displayInfo();  
  
  
  
 }  
  
  
}  
  
  
class Address{  
 private int streetNumber;  
 private String city;  
 private String country;  
  
 public int getStreetNumber() {  
 return streetNumber;  
 }  
  
 public void setStreetNumber(int streetNumber) {  
 this.streetNumber = streetNumber;  
 }  
  
 public String getCity() {  
 return city;  
 }  
  
 public void setCity(String city) {  
 this.city = city;  
 }  
  
 public String getCountry() {  
 return country;  
 }  
  
 public void setCountry(String country) {  
 this.country = country;  
 }  
}  
  
class date{  
 private int day;  
 private int year;  
 private int month;  
  
 public date(int day, int month, int year) {  
  
 if (day < 1 || day > 30) {  
  
 System.*out*.println("Invalid Date");  
  
 }  
 else {  
 this.day = day;  
 this.month = month;  
 this.year = year;  
 }  
  
 }  
}  
  
class Employee{  
  
 private int id;  
 private String name;  
 private Date birthDate;  
 private Address Address;  
  
 public int getId() {  
 return id;  
 }  
  
 public void setId(int id) {  
 this.id = id;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
  
 public Date getBirthDate() {  
 return birthDate;  
 }  
  
 public void setBirthDate(Date birthDate) {  
 this.birthDate = birthDate;  
 }  
  
 public Address getAddress() {  
 return Address;  
 }  
  
 public void setAddress(Address address) {  
 Address = address;  
 }  
  
 public Employee(int id, String name, Date birthDate, Address address) {  
  
 this.id = id;  
 this.name = name;  
 this.birthDate = birthDate;  
 Address = address;  
  
 }  
  
 public void displayInfo() {  
  
 System.*out*.println("ID: " + id);  
 System.*out*.println("Name: " + name);  
 System.*out*.println("Birthdate: " + birthDate.getDay() + "Month: " + birthDate.getMonth() + "Year: " + birthDate.getYear());  
 System.*out*.println("Address: " + Address.getStreetNumber() + " City: " + Address.getCity() + "Country: " + Address.getCountry());  
  
 }  
  
}