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// Admission Number 137603

// Object Oriented Programming

// Lab Assignment 3

// Date : 28/04/2021

import java.text.SimpleDateFormat;

import java.util.Date;

class Person

{

public String name;

public String gender;

public Integer dob;

// behavior or method

public void person\_(String name\_,String gender\_,Integer dob\_)

{

gender=gender\_;

name=name\_;

dob=dob\_;

}

public void setGender(String gender\_)

{

gender=gender\_;

}

public void setName(String name\_)

{

name=name\_;

}

public void setDob(Integer dob\_)

{

dob=dob\_;

}

public String getName(){

return name;

}

public String getGender(){

return gender;

}

public Integer getAge(){

// validate inputs ...

Date date = new Date();

SimpleDateFormat formatter = new SimpleDateFormat("yyyyMMdd");

int d1 = dob;

int d2 = Integer.parseInt(formatter.format(date));

int age = (d2 - d1) / 10000;

return age;

}

public void printDetails()

{

System.out.println ( name + " is a " + gender +" was born on " + dob );

}

}

class Student extends Person {

private String regNo;

private String course;

public static void main (String[]args)

{

Student myFun = new Student("Person1","Male",19900527,"xyz","abc");

myFun.printDetail();

System.out.println ( myFun.getAge());

}

public Student (String name\_, String gender\_, Integer dob\_, String regNo\_, String course\_) {

this.name=name\_;

this.gender=gender\_;

this.dob=dob\_;

this.regNo=regNo\_;

this.course=course\_;

}

public String getCourse(){

return course;

}

public String RegNo(){

return regNo;

}

public void printDetail()

{

System.out.println ( name + " is a " + gender +" was born on " + dob +" regNo " +regNo +" course " +course );

}

}