Assignment 2

Title:- Implement an application using Files in Java which calculates student percentage. Store the student record in a file with fields rollno, name, address and marks of 3 subjects.

Code:

package javaapplication3;

import java.util.Scanner;

import java.io.\*;

/\*\*

\*

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\*/

class object implements Serializable

{

int rollno;

String address;

String name;

int m1,m2,m3;

object (int roll, String name, String address, int sub1,int sub2, int sub3)

{

this.rollno = roll;

this.name = name;

this.address = address;

this.m1 = sub1;

this.m2 = sub2;

this.m3 = sub3;

}

}

public class JavaApplication3 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args)throws IOException {

// TODO code application logic here

Scanner sc = new Scanner(System.in);

try {

FileOutputStream filestream=new FileOutputStream("file.txt"); // Creating a new file

ObjectOutputStream obj=new ObjectOutputStream(filestream); // write stream

int n;

System.out.println("Enter number of Students : ");

n = sc.nextInt();

int roll, sub1, sub2, sub3;

String name, address;

System.out.println("Enter details of Students : ");

for(int i=0;i<n;i++)

{

System.out.print("\nEnter rollno of Student : ");

roll = sc.nextInt();

System.out.print("Enter name of Student : ");

name = sc.next();

System.out.print("Enter Address of Student : ");

address = sc.next();

System.out.print("Enter Marks of Subject 1 of Student : ");

sub1 = sc.nextInt();

System.out.print("Enter Marks of Subject 2 of Student : ");

sub2 = sc.nextInt();

System.out.print("Enter Marks of Subject 3 of Student : ");

sub3 = sc.nextInt();

object e1 = new object(roll, name, address, sub1,sub2,sub3);

obj.writeObject(e1);

}

obj.close();

FileInputStream fileln=new FileInputStream("file.txt"); // reading from a file

ObjectInputStream objln=new ObjectInputStream(fileln); // input stream

System.out.println("\nThe Percentages of Students are : \n");

for(int i=0;i<n;i++)

{

object e2 = (object)objln.readObject();

sub1 = e2.m1;

sub2 = e2.m2;

sub3 = e2.m3;

double percent = (e2.m1+e2.m2+e2.m3)/(3.0);

System.out.println("Percentage of Student " + i + " : " + percent);

}

objln.close();

}

catch (Exception e)

{

System.out.println(e);

}

}

}

Output:

