TEST IV

**package** lei;

**import** java.io.\*;

**import** java.util.\*;

**public** **class** exam1 {

**static** Scanner *scan* = **new** Scanner (System.*in*);

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

String temp;

**int** tempVar=0;

**int** x, y;

String name[]=**new** String[5];

**int** grade[]=**new** **int**[5];

FileWriter fwriter = **new** FileWriter ("test4.txt", **true**); //open a file

PrintWriter outputFile = **new** PrintWriter (fwriter);

Date date = **new** Date(); //for date display

String str = String.*format* ("Transacton Date: %tc", date);

outputFile.println(str);

**for** (x=0; x<5; x++)

{

System.*out*.print("Enter name" +(x+1)+ ":");

outputFile.println("Enter name" +(x+1)+ ":");

name[x]=*scan*.next();

outputFile.println(name[x]);

System.*out*.print("Enter grade" +(x+1)+ ":");

outputFile.println("Enter grade" +(x+1)+ ":");

grade[x]=*scan*.nextInt();

outputFile.println(grade[x]);

}

System.*out*.print("\nDisplay Names not sorted \n");

outputFile.println("\nDisplay Names not sorted \n");

**for** (x=0; x<5; x++)

{

System.*out*.print("\n" +name[x]);

outputFile.println("\n" +name[x]);

System.*out*.print("\t" +grade[x]);

outputFile.println("\t" +grade[x]);

}

System.*out*.print("\nGrades in Ascending Order:\n");

outputFile.println("\nGrades in Ascending Order:\n");

**for** (x=0; x<5; x++)

{

**for** (y=x+1; y<5; y++)

{

**if** (grade[x] > grade[y])

{

tempVar=grade[x];

grade[x]=grade[y];

grade[y]=tempVar;

temp=name[x];

name[x]=name[y];

name[y]=temp;

}

}

{

System.*out*.print("\n" +name[x]);

outputFile.println("\n" +name[x]);

System.*out*.print("\t" +grade[x]);

outputFile.println("\t" +grade[x]);

}

}

System.*out*.print("\nNames and grades sorted:\n");

outputFile.println("\nNames and grades sorted:\n");

**for** (x=0; x<5; x++)

{

**for** (y=x+1; y<5; y++)

{

**if** (name[x].compareTo(name[y]) > 0)

{

temp=name[x];

name[x]=name[y];

name[y]=temp;

tempVar=grade[x];

grade[x]=grade[y];

grade[y]=tempVar;

}

}

{

System.*out*.print("\n" +name[x]);

outputFile.println("\n" +name[x]);

System.*out*.print("\t" +grade[x]);

outputFile.println("\t" +grade[x]);

}

}

outputFile.close();

}

}

