**Collection task for pdf conversion…**

**package** practice.collectiontasks;

**import** java.io.BufferedReader;

**import** java.io.FileReader;

**import** java.io.IOException;

**import** java.util.ArrayList;

**import** java.util.HashMap;

**import** java.util.List;

**import** java.util.Map;

**public** **class** Sample {

**public** **static** HashMap<String, Student> mapFunction(String regNo,String subjectCode,String subjectName,String internalMarks,String externalMarks,String credits,HashMap<String, Student> hm2)

{

HashMap<String, Student> hm1 = **new** HashMap<String, Student>();

hm1.putAll(hm2);

Student st = **new** Student();

List<String> subjectCodeList = **new** ArrayList<String>();

List<String> subjectNameList = **new** ArrayList<String>();

List<Double> marksList = **new** ArrayList<Double>();

List<Integer> creditsList = **new** ArrayList<Integer>();

**if**(hm1.containsKey(regNo))

{

st=hm1.get(regNo);

subjectCodeList=st.getSubjectCodeList();

subjectNameList=st.getSubjectNameList();

marksList=st.getMarksList();

creditsList=st.getCreditsList();

subjectCodeList.add(subjectCode);

subjectNameList.add(subjectName);

**double** marks = Double.*parseDouble*(internalMarks)+Double.*parseDouble*(externalMarks);

marksList.add(marks);

creditsList.add(Integer.*parseInt*(credits));

st.setSubjectCodeList(subjectCodeList);

st.setSubjectNameList(subjectNameList);

st.setMarksList(marksList);

st.setCreditsList(creditsList);

hm1.put(regNo, st);

}

**else**

{

subjectCodeList.add(subjectCode);

subjectNameList.add(subjectName);

**double** marks = Double.*parseDouble*(internalMarks)+Double.*parseDouble*(externalMarks);

marksList.add(marks);

creditsList.add(Integer.*parseInt*(credits));

st.setSubjectCodeList(subjectCodeList);

st.setSubjectNameList(subjectNameList);

st.setMarksList(marksList);

st.setCreditsList(creditsList);

hm1.put(regNo, st);

}

**return** hm1;

}

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

FileReader fr = **new** FileReader("D://notepad//checkdata.txt");

BufferedReader br = **new** BufferedReader(fr);

String line;

HashMap<String,HashMap<String, Student>> hm = **new** HashMap<String, HashMap<String,Student>>();

**while**((line=br.readLine())!=**null**)

{

String arr[] = line.split(" ");

StringBuffer sb = **new** StringBuffer();

**int** j=0;

**for**(**int** i=0;i<arr.length;i++)

**if**(!(arr[i].contains("0")||arr[i].contains("1")||arr[i].contains("2")||arr[i].contains("3")||arr[i].contains("4")||arr[i].contains("5")||arr[i].contains("6")||arr[i].contains("7")||arr[i].contains("8")||arr[i].contains("9")))

{

sb.append(arr[i]+" ");

j=i;

}

String subjectName=sb.toString();

String dept=**null**;

String subjectCode=arr[1];

String internalMarks = arr[j+1];

String externalMarks = arr[j+2];

String credits = arr[j+3];

**switch**(arr[0].charAt(7))

{

**case** '2':

dept="EEE";

**break**;

**case** '3':

dept="MECH";

**break**;

**case** '4':

dept="ECE";

**break**;

**case** '5':

dept="CSE";

**break**;

}

HashMap<String, Student> hm1 = **new** HashMap<String, Student>();

String regNo=arr[0];

/\*Student st = new Student();

List<String> subjectCodeList = new ArrayList<String>();

List<String> subjectNameList = new ArrayList<String>();

List<Double> marksList = new ArrayList<Double>();

List<Integer> creditsList = new ArrayList<Integer>();\*/

**if**(hm.containsKey(dept))

{

hm1=hm.get(dept);

hm1.putAll(*mapFunction*(regNo, subjectCode, subjectName, internalMarks, externalMarks, credits,hm1));

/\*if(hm1.containsKey(arr[0]))

{

st=hm1.get(arr[0]);

subjectCodeList=st.getSubjectCodeList();

subjectNameList=st.getSubjectNameList();

marksList=st.getMarksList();

creditsList=st.getCreditsList();

subjectCodeList.add(arr[1]);

subjectNameList.add(subjectName);

double marks = Double.parseDouble(arr[j+1])+Double.parseDouble(arr[j+2]);

marksList.add(marks);

creditsList.add(Integer.parseInt(arr[j+3]));

st.setSubjectCodeList(subjectCodeList);

st.setSubjectNameList(subjectNameList);

st.setMarksList(marksList);

st.setCreditsList(creditsList);

hm1.put(arr[0], st);

}

else

{

subjectCodeList.add(arr[1]);

subjectNameList.add(subjectName);

double marks = Double.parseDouble(arr[j+1])+Double.parseDouble(arr[j+2]);

marksList.add(marks);

creditsList.add(Integer.parseInt(arr[j+3]));

st.setSubjectCodeList(subjectCodeList);

st.setSubjectNameList(subjectNameList);

st.setMarksList(marksList);

st.setCreditsList(creditsList);

hm1.put(arr[0], st);

}\*/

hm.put(dept, hm1);

}

**else**

{

/\*if(hm1.containsKey(arr[0]))

{

st=hm1.get(arr[0]);

subjectCodeList=st.getSubjectCodeList();

subjectNameList=st.getSubjectNameList();

marksList=st.getMarksList();

creditsList=st.getCreditsList();

subjectCodeList.add(arr[1]);

subjectNameList.add(subjectName);

double marks = Double.parseDouble(arr[j+1])+Double.parseDouble(arr[j+2]);

marksList.add(marks);

creditsList.add(Integer.parseInt(arr[j+3]));

st.setSubjectCodeList(subjectCodeList);

st.setSubjectNameList(subjectNameList);

st.setMarksList(marksList);

st.setCreditsList(creditsList);

hm1.put(arr[0], st);

}

else

{

subjectCodeList.add(arr[1]);

subjectNameList.add(subjectName);

double marks = Double.parseDouble(arr[j+1])+Double.parseDouble(arr[j+2]);

marksList.add(marks);

creditsList.add(Integer.parseInt(arr[j+3]));

st.setSubjectCodeList(subjectCodeList);

st.setSubjectNameList(subjectNameList);

st.setMarksList(marksList);

st.setCreditsList(creditsList);

hm1.put(arr[0], st);

}\*/

hm1=*mapFunction*(regNo, subjectCode, subjectName, internalMarks, externalMarks, credits,hm1);

hm.put(dept, hm1);

}

//System.out.println(arr[0].charAt(7));

}

//System.out.println(hm);

**for**(Map.Entry<String, HashMap<String, Student>> en:hm.entrySet())

{

String dept=en.getKey();

HashMap<String,Student> hm1=en.getValue();

**for**(Map.Entry<String, Student> en1:hm1.entrySet())

{

String regNo=en1.getKey();

Student st=en1.getValue();

List<String> subjectCodeList=st.getSubjectCodeList();

List<String> subjectNameList=st.getSubjectNameList();

List<Double> marksList=st.getMarksList();

List<Integer> creditsList=st.getCreditsList();

**for**(**int** i=0;i<subjectCodeList.size();i++)

{

System.***out***.println(dept+" "+regNo+" "+subjectCodeList.get(i)+" "+subjectNameList.get(i)+" "+marksList.get(i)+" "+creditsList.get(i));

}

}

}

br.close();

fr.close();

}

}