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import java.util.Scanner;
public class student_marksheet{
    public static void main(String[] args) {
        System.out.println("Dedan Kinathi University of Technology");
        System.out.println("School of Computer Science and IT");
        System.out.println("Department of Computer Science");
        System.out.println("Academic Year: 2024/2025");
        System.out.println("STUDENT MARKSHEET (SECOND YEAR RESULTS)");

        // variable names for full name: fullname_1, full_name_2.....
        // var. names for registration numbers will be: regno_1...
        //var. names for marks will be from ccs2211 to ccs2218: _1, _2.....{
        Scanner input = new Scanner(System.in);

        // char grade_1, grade_2, grade_3, grade_4, grade_5;
        // string state_1, state_2, state_3, state_4, state_5;

        // status and grade variable declarations for the next lesson.

        String regno_1, regno_2, regno_3, regno_4, regno_5;
        String fullname_1, fullname_2, fullname_3, fullname_4, fullname_5;
        //for fullnames and reg.numbers
        int ccs2211_1, ccs2211_2, ccs2211_3, ccs2211_4, ccs2211_5;
        int ccs2212_1, ccs2212_2, ccs2212_3, ccs2212_4, ccs2212_5;
        int ccs2213_1, ccs2213_2, ccs2213_3, ccs2213_4, ccs2213_5;
        int ccs2214_1, ccs2214_2, ccs2214_3, ccs2214_4, ccs2214_5;
        int ccs2215_1, ccs2215_2, ccs2215_3, ccs2215_4, ccs2215_5;
        int ccs2216_1, ccs2216_2, ccs2216_3, ccs2216_4, ccs2216_5;
        int ccs2217_1, ccs2217_2, ccs2217_3, ccs2217_4, ccs2217_5;
        //7 courses, 5 students
        int ttl_1, ttl_2, ttl_3, ttl_4, ttl_5;
        double avg_1, avg_2, avg_3, avg_4, avg_5;
        // for averages and totals

        System.out.print("Enter first student's name: ");
        fullname_1 = input.nextLine();

        System.out.print("Enter first student's registration number: ");
        regno_1 = input.nextLine();
        System.out.println("Enter first student's CCS 2211 marks: ");
        ccs2211_1 = input.nextInt();
        System.out.println("Enter first student's CCS 2212 marks: ");
        ccs2212_1 = input.nextInt();
        System.out.println("Enter first student's CCS 2213 marks: ");
        ccs2213_1 = input.nextInt();
        System.out.println("Enter first student's CCS 2214 marks: ");
        ccs2214_1 = input.nextInt();
        System.out.println("Enter first student's CCS 2215 marks: ");
        ccs2215_1 = input.nextInt();
        System.out.println("Enter first student's CCS 2216 marks: ");
        ccs2216_1 = input.nextInt();
        System.out.println("Enter first student's CCS 2217 marks: ");
        ccs2217_1 = input.nextInt();
    }
}

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102
103     System.out.println(x: "Enter fourth student's registration number: ");
104     regno_4 = input.nextLine();
105     System.out.println(x: "Enter fourth student's CCS 2211 marks: ");
106     ccs2211_4 = input.nextInt();
107     System.out.println(x: "Enter fourth student's CCS 2212 marks: ");
108     ccs2212_4 = input.nextInt();
109     System.out.println(x: "Enter fourth student's CCS 2213 marks: ");
110     ccs2213_4 = input.nextInt();
111     System.out.println(x: "Enter fourth student's CCS 2214 marks: ");
112     ccs2214_4 = input.nextInt();
113     System.out.println(x: "Enter fourth student's CCS 2215 marks: ");
114     ccs2215_4 = input.nextInt();
115     System.out.println(x: "Enter fourth student's CCS 2216 marks: ");
116     ccs2216_4 = input.nextInt();
117     System.out.println(x: "Enter fourth student's CCS 2217 marks: ");
118     ccs2217_4 = input.nextInt();
119     input.nextLine(); // consume leftover newline before nextline()
120
121     System.out.print(s: "Enter fifth student's name: ");
122     fullname_5 = input.nextLine();
123
124     System.out.println(x: "Enter fifth student's registration number: ");
125     regno_5 = input.nextLine();
126     System.out.println(x: "Enter fifth student's CCS 2211 marks: ");
127     ccs2211_5 = input.nextInt();
128     System.out.println(x: "Enter fifth student's CCS 2212 marks: ");
129     ccs2212_5 = input.nextInt();
130     System.out.println(x: "Enter fifth student's CCS 2213 marks: ");
131     ccs2213_5 = input.nextInt();
132     System.out.println(x: "Enter fifth student's CCS 2214 marks: ");
133     ccs2214_5 = input.nextInt();
134     System.out.println(x: "Enter fifth student's CCS 2215 marks: ");
135     ccs2215_5 = input.nextInt();
136     System.out.println(x: "Enter fifth student's CCS 2216 marks: ");
137     ccs2216_5 = input.nextInt();
138     System.out.println(x: "Enter fifth student's CCS 2217 marks: ");
139     ccs2217_5 = input.nextInt();
140
141     ttl_1 = ccs2211_1 + ccs2212_1 + ccs2213_1 + ccs2214_1 + ccs2215_1 + ccs2216_1 + ccs2217_1;
142     ttl_2 = ccs2211_2 + ccs2212_2 + ccs2213_2 + ccs2214_2 + ccs2215_2 + ccs2216_2 + ccs2217_2;
143     ttl_3 = ccs2211_3 + ccs2212_3 + ccs2213_3 + ccs2214_3 + ccs2215_3 + ccs2216_3 + ccs2217_3;
144     ttl_4 = ccs2211_4 + ccs2212_4 + ccs2213_4 + ccs2214_4 + ccs2215_4 + ccs2216_4 + ccs2217_4;
145     ttl_5 = ccs2211_5 + ccs2212_5 + ccs2213_5 + ccs2214_5 + ccs2215_5 + ccs2216_5 + ccs2217_5;
146
147     avg_1 = ttl_1 / 7.0;
148     avg_2 = ttl_2 / 7.0;
149     avg_3 = ttl_3 / 7.0;
150     avg_4 = ttl_4 / 7.0;
151     avg_5 = ttl_5 / 7.0;

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147     avg_1 = ttl_1 / 7.0;
148     avg_2 = ttl_2 / 7.0;
149     avg_3 = ttl_3 / 7.0;
150     avg_4 = ttl_4 / 7.0;
151     avg_5 = ttl_5 / 7.0;
152
153
154 //define the structure for the score sheet
155 final String header_form = "| %-18s | %-25s | %-8s | %-8s | %-8s | %-8s | %-8s | %-8s | %-8s | %-8s | %-10s | %-8s | %-6s |\n";
156 final String data_form = "| %-16s | %-25s | %-8d | %-8d | %-8d | %-8d | %-8d | %-8d | %-8d | %-8d | %-10.2f | %-8s | %-6s |\n";
157 final String separator = "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+";
158
159 System.out.println(x: "Student score sheet");
160 System.out.print(separator);
161 System.out.printf(header_form, ...args: "Reg Number", "Full Name", "CCS2211", "CCS2212", "CCS2213", "CCS2214", "CCS2215", "CCS2216", "CCS2217", "Totals", "Average", "Status", "Grade");
162 System.out.printf(separator);
163 System.out.printf(data_form, regno_1, fullname_1, ccs2211_1, ccs2212_1, ccs2213_1, ccs2214_1, ccs2215_1, ccs2216_1, ccs2217_1, ttl_1, avg_1, "null", "null");
164 System.out.printf(data_form, regno_2, fullname_2, ccs2211_2, ccs2212_2, ccs2213_2, ccs2214_2, ccs2215_2, ccs2216_2, ccs2217_2, ttl_2, avg_2, "null", "null");
165 System.out.printf(data_form, regno_3, fullname_3, ccs2211_3, ccs2212_3, ccs2213_3, ccs2214_3, ccs2215_3, ccs2216_3, ccs2217_3, ttl_3, avg_3, "null", "null");
166 System.out.printf(data_form, regno_4, fullname_4, ccs2211_4, ccs2212_4, ccs2213_4, ccs2214_4, ccs2215_4, ccs2216_4, ccs2217_4, ttl_4, avg_4, "null", "null");
167 System.out.printf(data_form, regno_5, fullname_5, ccs2211_5, ccs2212_5, ccs2213_5, ccs2214_5, ccs2215_5, ccs2216_5, ccs2217_5, ttl_5, avg_5, "null", "null");
168 System.out.printf(separator);
169
170 }
171

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