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3
4   Description: A simple sports registration system for a school.
5   This program allows students to register for sports in different houses and types.}
6 Program SportsRegistrationSystem;
7 Uses Crt;
8 Var
9   x, houseChoice, regChoice, id: Integer;
10  name, house: String;
11  alphaTrack, alphaField, betaTrack, betaField: Real;
12  deltaTrack, deltaField, gammaTrack, gammaField: Real;
13  totalAlpha, totalBeta, totalDelta, totalGamma: Real;
14  totalAlphaPersons, totalBetaPersons, totalDeltaPersons, totalGammaPersons: Integer;
15 Begin
16   ClrScr;
17   { Initialize variables }
18   alphaTrack := 0;
19   alphaField := 0;
20   betaTrack := 0;
21   betaField := 0;
22   deltaTrack := 0;
23   deltaField := 0;
24   gammaTrack := 0;
25   gammaField := 0;
26   Writeln('-----');
27   Writeln('      Welcome to the Sports Registration      ');
28   Writeln('-----');
29   Writeln;
30   For x := 1 To 12 Do
31   Begin
32     Writeln('-----[ Registering Student ', x, ' of 12 ]-----');
33     Write('Enter Student ID: ');
34     Readln(id);
35     Write('Enter Full Name: ');
36     Readln(name);
37     { House Selection }
38     Repeat
39       Writeln('Select House:');
40       Writeln('  1. Alpha');
41       Writeln('  2. Beta');
42       Writeln('  3. Delta');
43       Writeln('  4. Gamma');
44       Write('Enter choice (1-4): ');
45       Readln(houseChoice);
46       If (houseChoice < 1) OR (houseChoice > 4) Then
47         Writeln('Invalid choice. Please select a house between 1 and 4.');

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76         betaField := betaField + 40;
77     3: If regChoice = 1 Then
78         deltaTrack := deltaTrack + 50
79     Else
80         deltaField := deltaField + 40;
81     4: If regChoice = 1 Then
82         gammaTrack := gammaTrack + 50
83     Else
84         gammaField := gammaField + 40;
85 End;
86 { Confirmation }
87 Writeln;
88 Writeln('Registration Successful!');
89 Writeln(' Name : ', name, ' | House: ', house);
90 Writeln;
91 Readkey;
92 ClrScr;
93 End;
94 { Calculate totals }
95 totalAlpha := alphaTrack + alphaField;
96 totalBeta := betaTrack + betaField;
97 totalDelta := deltaTrack + deltaField;
98 totalGamma := gammaTrack + gammaField;
99 totalAlphaPersons := Trunc(alphaTrack / 50) + Trunc(alphaField / 40);
100 totalBetaPersons := Trunc(betaTrack / 50) + Trunc(betaField / 40);
101 totalDeltaPersons := Trunc(deltaTrack / 50) + Trunc(deltaField / 40);
102 totalGammaPersons := Trunc(gammaTrack / 50) + Trunc(gammaField / 40);
103 { Summary Output }
104 Writeln;
105 Writeln('-----');
106 Writeln('                FINAL REGISTRATION SUMMARY                ');
107 Writeln('-----');
108 Writeln;
109 Writeln(' ALPHA HOUSE');
110 Writeln(' Number of Persons in House: ', totalAlphaPersons);
111 Writeln(' Total: $', totalAlpha:0:2, ' USD');
112 Writeln('-----');
113 Writeln;
114 Writeln(' BETA HOUSE');
115 Writeln(' Number of Persons in House: ', totalBetaPersons);
116 Writeln(' Total: $', totalBeta:0:2, ' USD');
117 Writeln('-----');
118 Writeln;
119 Writeln(' DELTA HOUSE');
120 Writeln(' Number of Persons in House: ', totalDeltaPersons);
121 Writeln(' Total: $', totalDelta:0:2, ' USD');
122 Writeln('-----');
123 Writeln;
124 Writeln(' GAMMA HOUSE');
125 Writeln(' Number of Persons in House: ', totalGammaPersons);
126 Writeln(' Total: $', totalGamma:0:2, ' USD');
127 Writeln('-----');
128 Writeln;
129 Writeln('-----');
130 Writeln;
131 Writeln(' Thank you for using the system. Goodbye! ');
132 Writeln('-----');
133 Readkey;
134 End.

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