```
{Authors: Joshua Samuel, Shiva Beharry, Aadi Boodoosingh, Gerrard Ramcharan, Kemarley Pierre, Jahmarley Ellis
  Date of completion: 30/05/2025
  Description: A simple sports registration system for a school.
  This program allows students to register for sports in different houses and types.}

Program SportsRegistrationSystem;


Uses Crt;

Var
  x, houseChoice, regChoice: Integer;
  id, name, house, regType: String;
  alphaTrack, alphaField, betaTrack, betaField: Real;
  deltaTrack, deltaField, gammaTrack, gammaField: Real;
  totalAlpha, totalBeta, totalDelta, totalGamma: Real;
  totalAlphaPersons, totalBetaPersons, totalDeltaPersons, totalGammaPersons: Integer;

Begin
  {1} ClrScr;
  {2} alphaTrack := 0;
  {3} alphaField := 0;
  {4} betaTrack := 0;
  {5} betaField := 0;
  {6} deltaTrack := 0;
  {7} deltaField := 0;
  {8} gammaTrack := 0;
  {9} gammaField := 0;

  {10} Writeln('--------------------------------------------------');
  {11} Writeln('     Welcome to the Sports Registration       ');
  {12} Writeln('--------------------------------------------------');
  {13} Writeln;

  {14} For x := 1 To 12 Do
  Begin
    {15} Writeln('—[ Registering Student ', x, ' of 12 ]—');

    {16} Write('Enter Student ID: ');
    {17} Readln(id);

    {18} Write('Enter Full Name: ');
    {19} Readln(name);

    {House Selection}
    Repeat
      {20} Writeln('Select House:');
      {21} Writeln('  1. Alpha');
      {22} Writeln('  2. Beta');
      {23} Writeln('  3. Delta');
      {24} Writeln('  4. Gamma');
      {25} Write('Enter choice (1-4): ');
      {26} Readln(houseChoice);
    {27} Until ((houseChoice >= 1) And (houseChoice <= 4));

    {28} Case houseChoice Of
      {29} 1: house := 'ALPHA';
      {30} 2: house := 'BETA';
      {31} 3: house := 'DELTA';
      {32} 4: house := 'GAMMA';
    End;

    {Registration Type}
    Repeat
      {33} Writeln('Select Registration Type:');
      {34} Writeln('  1. Track');
      {35} Writeln('  2. Field');
      {36} Write('Enter choice (1-2): ');
      {37} Readln(regChoice);
    {38} Until ((regChoice = 1) Or (regChoice = 2));

    {39} Case regChoice Of
      {40} 1: regType := 'TRACK';
      {41} 2: regType := 'FIELD';
    End;
```

```
76
77      {Update house totals}
78      {42} If (house = 'ALPHA') Then
79      Begin
80        {43} If (regType = 'TRACK') Then
81          {44} alphaTrack := alphaTrack + 50
82        Else
83          {45} alphaField := alphaField + 40;
84      End
85      {46} Else If (house = 'BETA') Then
86      Begin
87        {47} If (regType = 'TRACK') Then
88          {48} betaTrack := betaTrack + 50
89        Else
90          {49} betaField := betaField + 40;
91      End
92      {50} Else If (house = 'DELTA') Then
93      Begin
94        {51} If (regType = 'TRACK') Then
95          {52} deltaTrack := deltaTrack + 50
96        Else
97          {53} deltaField := deltaField + 40;
98      End
99      {54} Else If (house = 'GAMMA') Then
100     Begin
101       {55} If (regType = 'TRACK') Then
102         {56} gammaTrack := gammaTrack + 50
103       Else
104         {57} gammaField := gammaField + 40;
105     End;
106
107     {58} Writeln;
108     {59} Writeln(' Registration Successful!');
109     {60} Writeln('  Name : ', name);
110     {61} Writeln('  House: ', house);
111     {62} ClrScr;
112     {63} Writeln('--------------------------------------------------');
113     {64} Writeln;
114   End;
115
116   {Compute Totals}
117   {65} totalAlpha := alphaTrack + alphaField;
118   {66} totalBeta := betaTrack + betaField;
119   {67} totalDelta := deltaTrack + deltaField;
120   {68} totalGamma := gammaTrack + gammaField;
121
122   {69} totalAlphaPersons := Trunc(alphaTrack / 50) + Trunc(alphaField / 40);
123   {70} totalBetaPersons := Trunc(betaTrack / 50) + Trunc(betaField / 40);
124   {71} totalDeltaPersons := Trunc(deltaTrack / 50) + Trunc(deltaField / 40);
125   {72} totalGammaPersons := Trunc(gammaTrack / 50) + Trunc(gammaField / 40);
126
127   {Summary}
128   {73} Writeln;
129   {74} Writeln('--------------------------------------------------');
130   {75} Writeln('           FINAL REGISTRATION SUMMARY             ');
131   {76} Writeln('--------------------------------------------------');
132
133   {77} Writeln;
134   {78} Writeln('  ALPHA HOUSE');
135   {79} Writeln('  Number of Persons in House: ', totalAlphaPersons);
136   {80} Writeln('  Total: $', totalAlpha:0:2, ' USD');
137   {81} Writeln('--------------------------------------------------');
138
139   {82} Writeln;
140   {83} Writeln('  BETA HOUSE');
141   {84} Writeln('  Number of Persons in House: ', totalBetaPersons);
142   {85} Writeln('  Total: $', totalBeta:0:2, ' USD');
143   {86} Writeln('--------------------------------------------------');
144
145   {87} Writeln;
146   {88} Writeln('  DELTA HOUSE');
147   {89} Writeln('  Number of Persons in House: ', totalDeltaPersons);
148   {90} Writeln('  Total: $', totalDelta:0:2, ' USD');
149   {91} Writeln('--------------------------------------------------');
150
151   {92} Writeln;
```

```
152   {93} Writeln('  GAMMA HOUSE');
153   {94} Writeln('  Number of Persons in House: ', totalGammaPersons);
154   {95} Writeln('  Total: $', totalGamma:0:2, ' USD');
155   {96} Writeln('-------------------------------------------------');
156
157   {97} Writeln('-------------------------------------------------');
158   {98} Writeln('      Thank you for using the system. Goodbye!   ');
159   {99} Writeln('-------------------------------------------------');
160   {100} Readln;
161 End.
```