

```
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C:\Users\USER\Downloads> labex3_faatihah (2).cpp > ...
1 #include <iostream>
2 #include <iomanip>
3 #include <cstring>
4 using namespace std;
5
6 const int NUM_MEDAL = 3;
7 const int NUM_COUNTRY = 4;
8
9
10 void readMedal(int[][NUM_MEDAL]);
11 int totalMedals(int[][NUM_MEDAL]);
12 int largestNum(int[][NUM_MEDAL]);
13 int smallestNum(int[][NUM_MEDAL]);
14 int highestGold(int[][NUM_MEDAL]);
15 int totalBronze(int[][NUM_MEDAL]);
16
17 int main()
18 {
19     int medals[NUM_COUNTRY][NUM_MEDAL];
20     readMedal(medals);
21
22     cout << "-----" << endl;
23     cout << "Total medals won by country 3 : " << totalMedals(medals) << endl;
24     cout << "Largest number of medals won : " << largestNum(medals) << endl;
25     cout << "Smallest number of medals won : " << smallestNum(medals) << endl;
26     cout << "Highest number of gold medals won : " << highestGold(medals) << endl;
27     cout << "Total number of bronze medals won : " << totalBronze(medals) << endl;
28
29     return 0;
30 }
31
32
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6:33 PM 8/1/2025
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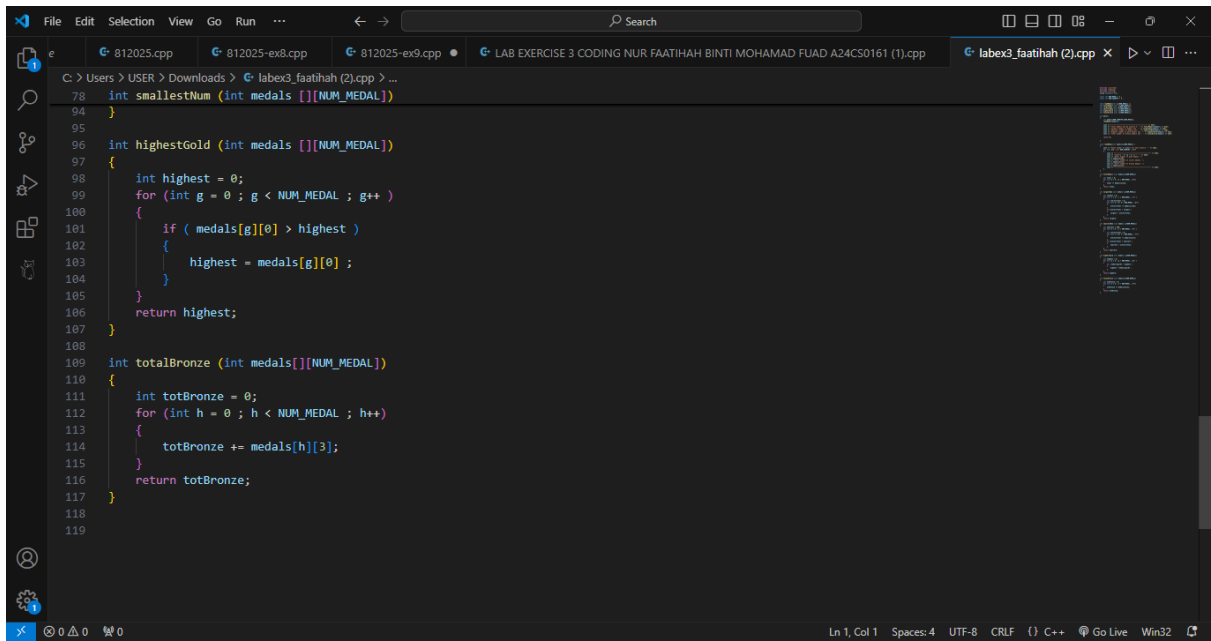
```
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17 int main()
18 {
19 }
20
21 void readMedal(int medals[][NUM_MEDAL])
22 {
23     cout << "Enter number of medals for each country : " << endl;
24     for (int a=0 ; a < NUM_COUNTRY ; a++)
25     {
26         cout << "-----" << endl;
27         cout << "Country " << (a + 1) << " : " << endl;
28         cout << "Enter number of gold medals: ";
29         cin >> medals[a][0];
30         cout << "Enter number of silver medals: ";
31         cin >> medals[a][1];
32         cout << "Enter number of bronze medals: ";
33         cin >> medals[a][2];
34         cout << "-----" << endl;
35     }
36 }
37
38 int totalMedals(int medals[][NUM_MEDAL])
39 {
40     int total = 0;
41     for (int b = 0 ; b < NUM_MEDAL ; b++)
42     {
43         total += medals[2][b];
44     }
45     return total;
46 }
47
48 int largestNum(int medals[][NUM_MEDAL])
49 {
50 }
51
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6:33 PM 8/1/2025
```

```
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59
60 int largestNum (int medals [][]NUM_MEDAL)
61 {
62     int largest = 0;
63     for (int c = 0 ; c < NUM_MEDAL ; c++ )
64     {
65         int overallTotal = 0;
66         for (int d = 0; d < NUM_MEDAL ; d++)
67         {
68             overallTotal += medals[c][d];
69         }
70         if (overallTotal > largest )
71         {
72             largest = overallTotal;
73         }
74     }
75     return largest;
76 }
77
78 int smallestNum (int medals [][]NUM_MEDAL)
79 {
80     int smallest = 999;
81     for (int e = 0 ; e < NUM_MEDAL ; e++ )
82     {
83         int overallTotal = 0;
84         for (int f = 0; f < NUM_MEDAL ; f++)
85         {
86             overallTotal += medals[e][f];
87         }
88         if (overallTotal < smallest )
89         {
90             smallest = overallTotal;
91         }
92     }
93     return smallest;
94 }
```

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```
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C:\Users\USER\Downloads> labex3_faatihah (2).cpp > ...
77
78 int smallestNum (int medals [][]NUM_MEDAL)
79 {
80     int smallest = 999;
81     for (int e = 0 ; e < NUM_MEDAL ; e++ )
82     {
83         int overallTotal = 0;
84         for (int f = 0; f < NUM_MEDAL ; f++)
85         {
86             overallTotal += medals[e][f];
87         }
88         if (overallTotal < smallest )
89         {
90             smallest = overallTotal;
91         }
92     }
93     return smallest;
94 }
95
96 int highestGold (int medals [][]NUM_MEDAL)
97 {
98     int highest = 0;
99     for (int g = 0 ; g < NUM_MEDAL ; g++ )
100     {
101         if ( medals[g][0] > highest )
102         {
103             highest = medals[g][0] ;
104         }
105     }
106     return highest;
107 }
108 }
```

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The image shows a Visual Studio Code editor window with a dark theme. The top menu bar includes File, Edit, Selection, View, Go, Run, and a search icon. The top toolbar has icons for Explorer, Search, Run and Debug, and a file icon. The Explorer sidebar on the left shows a file tree with folders '812025' and 'labex3\_faatihah (2)'. The main editor area displays a C++ file named 'labex3\_faatihah (2).cpp' with the following code:

```
78 int smallestNum (int medals[][NUM_MEDAL])
94 }
95
96 int highestGold (int medals[][NUM_MEDAL])
97 {
98     int highest = 0;
99     for (int g = 0 ; g < NUM_MEDAL ; g++ )
100     {
101         if ( medals[g][0] > highest )
102         {
103             highest = medals[g][0] ;
104         }
105     }
106     return highest;
107 }
108
109 int totalBronze (int medals[][NUM_MEDAL])
110 {
111     int totBronze = 0;
112     for (int h = 0 ; h < NUM_MEDAL ; h++)
113     {
114         totBronze += medals[h][3];
115     }
116     return totBronze;
117 }
118
119
```

The bottom status bar shows 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'C++', 'Go Live', and 'Win32'.