```
1 #include<iostream>
 2 #include<string>
 3 #include<iomanip>
 4 using namespace std;
 6 int RandomNumber(int From, int To)
 7 {
 8
        //Function to generate a random number
 9
        int randNum = rand() % (To - From + 1) + From;
10
        return randNum;
11 }
12 void FillMatrixWithRandomNumbers(int arr[3][3], short Rows, short Cols)
13 {
14
        for (short i = 0; i < Rows; i++)
15
        {
16
            for (short j = 0; j < Cols; j++)
17
                arr[i][j] = RandomNumber(1, 100);
19
20
        }
21 }
22
23 void PrintMatrix(int arr[3][3], short Rows, short Cols)
24 {
25
26
        for (short i = 0; i < Rows; i++)</pre>
27
28
            for (short j = 0; j < Cols; j++)
29
            {
                cout << setw(3) << arr[i][j] << "</pre>
30
31
            cout << "\n";</pre>
32
33
        }
34 }
35
36 int RowSum(int arr[3][3], short RowNumber, short Cols)
37 {
38
        int Sum = 0;
39
40
        for (short j = 0; j <= Cols - 1; j++)
41
42
            Sum += arr[RowNumber][j];
43
44
        return Sum;
45 }
46
   void SumMatixRowsInArry(int arr[3][3], int arrSum[3], short Rows, short
     Cols)
48
49
       for (short i = 0; i < Rows; i++)</pre>
50
51
            arrSum[i] = RowSum(arr, i, Cols);
52
        }
```

```
...OfArrayRows\03_A_SumOfArrayRows\03_A_SumOfArrayRows.cpp
```

```
2
```

```
53
54
55 void PrintRowsSumArray(int arr[3], short Rows)
56 {
57
        cout << "\nThe the following are the sum of each row in the matrix:\n";</pre>
58
       for (short i = 0; i < Rows; i++)
59
            cout << " Row " << i + 1 << " Sum = " << arr[i] << endl;</pre>
60
61
        }
62 }
63
64 int main()
65 { //Seeds the random number generator in C++, called only once
        srand((unsigned)time(NULL));
67
        int arr[3][3];
68
        int arrSum[3];
69
       FillMatrixWithRandomNumbers(arr, 3, 3);
70
71
        cout << "\nThe following is a 3x3 random matrix:\n";</pre>
72
       PrintMatrix(arr, 3, 3);
73
74
       PrintRowsSumArray(arrSum, 3);
75
76
       system("pause>0");
77 }
```