```
1 #include <stdio.h>
 2 int main(void)
 3 {
 4
        //variable declaraions
 5
        int iArray[5][3] = { {1, 2, 3}, {2, 4, 6}, {3, 6, 9}, {4, 8, 12}, {5, 10,
          15} }; //IN-LINE INITIALIZATION
 6
        int int size;
 7
        int iArray_size;
 8
        int iArray_num_elements, iArray_num_rows, iArray_num_columns;
 9
10
        //code
11
12
        printf("\n\n");
13
14
        int_size = sizeof(int);
15
        iArray_size = sizeof(iArray);
16
17
        printf("Size Of Two Dimensional ( 2D ) Integer Array Is = %d\n\n",
          iArray_size);
18
19
        iArray_num_rows = iArray_size / sizeof(iArray[0]);
        printf("Number of Rows In Two Dimensional ( 2D ) Integer Array Is = %d\n\n",
20
          iArray_num_rows);
21
        iArray_num_columns = sizeof(iArray[0]) / int_size;
22
23
        printf("Number of Columns In Two Dimensional ( 2D ) Integer Array Is = %d\n
          \n", iArray_num_columns);
24
        iArray num elements = iArray num rows * iArray num columns;
25
        printf("Number of Elements In Two Dimensional ( 2D ) Integer Array Is = %d\n
26
          \n", iArray_num_elements);
27
28
        printf("\n\n");
29
        printf("Elements In The 2D Array : \n\n");
30
31
        // *** ARRAY INDICES BEGIN FROM 0, HENCE, 1ST ROW IS ACTUALLY 0TH ROW AND 1ST >
          COLUMN IS ACTUALLY 0TH COLUMN ***
32
        for (i = 0; i < iArray_num_rows; i++)</pre>
33
            printf("****** ROW %d ******\n", (i + 1));
34
35
            for (j = 0; j < iArray_num_columns; j++)</pre>
36
            {
37
                printf("iArray[%d][%d] = %d\n", i, j, iArray[i][j]);
38
39
            printf("\n\n");
40
        }
41
42
        return(0);
43 }
44
45
```