

Lab 30

```
1  #include <stdio.h>
2  main()
3  {
4      float one2D[5][5], two2D[5][5], three2D[5][5], sum = 0, avg = 0;
5      int w_size = 0, h_size = 0, i, j, run = 0;
6      char finish = 'y';
7
8      while (finish == 'y')
9      {
10         while (w_size <= 0 || w_size > 5)
11         {
12             printf("Enter width size of array (maximum = 5) : ");
13             scanf("%d", &w_size);
14             printf("\n");
15             if (w_size <= 0 || w_size > 5)
16             {
17                 printf("\nEnter 1 - 5\n\n");
18             }
19         }
20
21         while (h_size <= 0 || h_size > 5)
22         {
23             printf("Enter height size of array (maximum = 5) : ");
24             scanf("%d", &h_size);
25             printf("\n");
26             if (h_size <= 0 || h_size > 5)
27             {
28                 printf("\nEnter 1 - 5\n\n");
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29     }
30 }
31 for (i = 0; i < h_size; i++)
32 {
33     for (j = 0; j < w_size; j++)
34     {
35         one2D[i][j] = 0;
36         two2D[i][j] = 0;
37         three2D[i][j] = 0;
38     }
39 }
40 printf("Enter number in first array (%d x %d) \n", w_size, h_size);
41 for (i = 0; i < h_size; i++)
42 {
43     for (j = 0; j < w_size; j++)
44     {
45         printf("First[%d][%d] : ", i, j);
46         scanf("%f", &one2D[i][j]);
47     }
48 }
49 printf("\nEnter number in second array (%d x %d) \n", w_size, h_size);
50 for (i = 0; i < h_size; i++)
51 {
52     for (j = 0; j < w_size; j++)
53     {
54         printf("Second[%d][%d] : ", i, j);
55         scanf("%f", &two2D[i][j]);
56     }
57 }
58 printf("\nMultiply Array is (%d x %d) \n", w_size, h_size);
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59     for (i = 0; i < h_size; i++)
60     {
61         for (j = 0; j < w_size; j++)
62         {
63             three2D[i][j] = one2D[i][j] * two2D[i][j];
64             printf("\nThree[%d][%d] : %.2f", i, j, three2D[i][j]);
65         }
66     }
67     for (i = 0; i < h_size; i++)
68     {
69         for (j = 0; j < w_size; j++)
70         {
71             sum += three2D[i][j];
72         }
73     }
74     avg = sum / (w_size * h_size);
75     printf("\n\nAverage of multiply value in array is  %.2f / %d  = \"%.2f\" ",
76 sum,w_size*h_size,avg);
77     run = 1;
78     while (run == 1)
79     {
80         printf("\n\nContinue Program ? (y/N) : ");
81         scanf(" %c", &finish);
82         printf("\n");
83         if (finish == 'y' || finish == 'N')
84         {
85             run = 0;
86             w_size = 0;
87             h_size = 0;
88             sum=0;
```

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89         }
90     else
91     {
92         printf("Enter only \" y \" or \"N\\\"");
93     }
94 }
95 if (finish == 'N')
96 {
97     printf("\\End Program\\\"\\n");
98 }
99 }
100 }
```