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1. Write a program for store elements in array.

```
X File Edit Selection View Go Run Terminal Help
                                                                                                q1.c - OOP
      ⋈ Welcome
                       C Q2.c
                                        C q1.c
        C q1.c > ۞ main()
              int main()
                  for (int i = 0; i < 5; i++)
                      printf("Your Element = %d\n", array[i]);
        PROBLEMS
                  OUTPUT TERMINAL
                                     DEBUG CONSOLE
       Windows PowerShell
       Copyright (C) Microsoft Corporation. All rights reserved.
       Try the new cross-platform PowerShell https://aka.ms/pscore6
       PS D:\00PS> cd "d:\00PS\" ; if ($?) { gcc Q1.c -0 Q1 } ; if ($?) { .\Q1 }
       Your Element = 12
       Your Element = 23
       Your Element = 543
       Your Element = 23
       Your Element = 42
PS D:\OOPS>
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```

2. Write a program to storing elements in array and print it through user by asking size.

```
🗙 File Edit Selection View Go Run Terminal Help
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            • Q2.c - OOPS - Visual Studio Code
                               ⋈ Welcome
                                                                                                                   C Q2.c
                                       C Q2.c > ♥ main()
                                                                                          int array[n];
for (int i = 0; i <= n; i++)</pre>
                                                                                                                printf("Your Element = %d\n", array[i]);
                                       PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                     PS D:\00PS> cd "d:\00PS\" ; if (\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fracc}\fir\f{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\fir}\f{\frac{
                                     Input size of array :-5
                                     Element 0 = 12
                                     Element 1 = 45
                                     Element 2 = 31
                                     Element 3 = 94
                                     Element 4 = 54
                                     Element 5 = 32
                                      Your Element = 12
                                     Your Element = 45
                                     Your Element = 31
                                    Your Element = 94
Your Element = 54
PS D:\OOPS> []
 ⊗ 0 ∆ 0
```

3. Write a program of 2 -d array and print matrix of size 3*3.

```
File Edit Selection View Go Run Terminal Help
                                                                                               Q3.c - OOPS - Visual Studio Code
      ⋈ Welcome
                       C Q2.c
                                       C O3.c
       C Q3.c > ♥ main()
                          printf("enter element at %d,%d position :", i + 1, j + 1);
                          scanf("%d", &a[i][j]);
                  for (i = 0; i \le 2; i++)
                          printf("%d\t", a[i][j]);
                      printf("\n");
                  return 0;
       PROBLEMS
                  OUTPUT TERMINAL
                                     DEBUG CONSOLE
       Windows PowerShell
       Copyright (C) Microsoft Corporation. All rights reserved.
       Try the new cross-platform PowerShell https://aka.ms/pscore6
       PS D:\00PS> cd "d:\00PS\" ; if ($?) { gcc Q3.c -0 Q3 } ; if ($?) { .\Q3 }
       enter element at 1,1 position :45
       enter element at 1,2 position :21
       enter element at 1,3 position :32
       enter element at 2,1 position :74
       enter element at 2,2 position :35
       enter element at 2,3 position :36
       enter element at 3,1 position :10
       enter element at 3,2 position :19
       enter element at 3,3 position :40
       45
               21
       74
                       36
       10
               19
                       40
       PS D:\00PS> =
\otimes 0 \triangle 0
```

4. Write a program for addition of same sizes two matrix.

```
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                                                                                            • Q4.c - OOPS - Visual Studio Code
      ⋈ Welcome
                      C Q2.c
                                      C Q3.c
                                                      C Q4.c
             #include <stdio.h>
                  int r, c, a[100][100], b[100][100], sum[100][100], i, j;
                  printf("enter the no. of rows :");
                  scanf("%d", &r);
                  printf("enter the no. of columns :");
                  scanf("%d", &c);
                  printf("\nenter elements of a matrix :\n");
                         printf("enter element a%d%d:", i + 1, j + 1);
                         scanf("%d", &a[i][j]);
                 printf("\nenter elements of b matrix :\n");
                  for (i = 0; i < r; ++i)
                         scanf("%d", &b[i][j]);
                          sum[i][j] = a[i][j] + b[i][j];
                         printf("%d\t", sum[i][j]);
                              printf("\n\n");
⊗ 0 ∆ 0
```