**Array Initialization Methods**

1. **Array no Initialization**
2. **Array zero Initialization**
3. **Array List Initialization**
4. **Array Loop Initialization**

***void main()***

***{***

***char response;***

***printf("\n \t\t Array Initialization Methods ");***

***printf("\n\t\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \n");***

***const int size = 15;***

***int zeroarray[size] = { 0 };***

***printf("\n\n array zero initialization :\n\t");***

***for (int i = 0; i < size; i++)***

***{***

***if (i % 7 == 0)***

***printf("\n\t ");***

***printf("%d\t", zeroarray[i]);***

***}***

***printf("\n\n\t end of zero initialization\n");***

***float listarray[] = { 87, 95, 76, 69, 54, 48, 33, 22, 17,***

***26, 51, 64, 44, 28, 77 };***

***printf("\n\n\t array list initialization :\n\t");***

***for (int i = 0; i < (sizeof (listarray) / sizeof(listarray[0]));i++)***

***{***

***if (i % 6 == 0)***

***printf("\n\t ");***

***printf("%.2f\t", listarray[i]);***

***}***

***printf("\n\n\t end of list initialization");***

***float fltarray[size];***

***printf("\n\n\t array no initialization :\n\t");***

***for (int i = 0; i < size; i++)***

***{***

***if (i % 3 == 0)***

***printf("\n\t ");***

***printf("%.4f\t", fltarray[i]);***

***}***

***printf("\n\n\t end of no initialization");***

***printf("\n\n\t array Loop initialization :\n\t");***

***for (int i = 0; i < size; i++)***

***{***

***fltarray[i] = 22.22 + i \* 2;***

***if (i % 4 == 0)***

***printf("\n\t ");***

***printf("%.2f\t", fltarray[i]);***

***}***

***printf("\n\n\t end of no initialization\n\n");***

***printf("\n\t Please enter 'Q' or 'q' to quit: ");***

***scanf\_s("%c", &response);***

***return;***

***}***

***Output of Array Initializations:***

***Array Initialization Methods***

***\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\****

***array zero initialization :***

***0 0 0 0 0 0 0***

***0 0 0 0 0 0 0 0***

***end of zero initialization***

***array list initialization :***

***87.00 95.00 76.00 69.00 54.00 48.00***

***33.00 22.00 17.00 26.00 51.00 64.00***

***44.00 28.00 77.00***

***end of list initialization***

***array no initialization :***

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***end of no initialization***

***array Loop initialization :***

***22.22 24.22 26.22 28.22***

***30.22 32.22 34.22 36.22***

***38.22 40.22 42.22 44.22***

***46.22 48.22 50.22***

***end of no initialization***