Tutorial 06



#include <stdio.h>

int main () {

int size;

printf("Enter the size of the arrays: ");

scanf("%d", &size);

printf("\n");

int arr1[size];

int arr2[size];

int result[size];

int scalar\_products;

printf("Enter the values for array 01:\n");

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

printf("Enter value for array 01 [%d]: ", i);

scanf("%d", &arr1[i]);

}

printf("\n");

printf("Enter the values for array 02:\n");

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

printf("Enter value for array 02 [%d]: ", i);

scanf("%d", &arr2[i]);

}

printf("\n");

printf("Vector Product\n");

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

result[i] = arr1[i] \* arr2[i];

printf("Array 01 [%d] \* Array 02 [%d] = %d\n", i, i, result [i]);

}

printf("\n");

printf("Scalar Product\n");

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

result[i] = arr1[i] \* arr2[i];

scalar\_products += result[i];

}

printf("Scalar Product: %d\n", scalar\_products);

return 0;

}