8.2   **The dot product of two one-dimensional arrays of real numbers A and B defined as**

         double A[Max_Size], B[Max_Size];

is the sum of

         A[0]*B[0] + A[1]*B[1] + A[2]*B[2] + ... + A[Max_Size - 1]*B[Max_Size - 1]

where Max_Size is an integer representing size of the array.

Write a function

         double dot (double A[ ], double B[ ], int NumOfData);

to pass the two arrays and the number of elements in each array to the function to calculate the dot product of the two array.

Write a program to test your function.

Sample running :

The program will find the dot product of
two one-dimensional arrays of real numbers.
How many number you want to input for each array (1 - 20)? *5*<CR>

Please input numbers for first array.
 Data[1] : *2.5*<CR>
 Data[2] : *1.2*<CR>
 Data[3] : *3.6*<CR>
 Data[4] : *4.8*<CR>
 Data[5] : *8*<CR>

Please input numbers for second array.
 Data[1] : *6.3*<CR>
 Data[2] : *2.4*<CR>
 Data[3] : *-2.3*<CR>
 Data[4] : *5*<CR>
 Data[5] : *7*<CR>

The two arrays of numbers are

       2.500000   6.300000
       1.200000   2.400000
       3.600000   -2.300000
       4.800000   5.000000
       8.000000   7.000000

The dot product of the two arrays is   90.350

Do you want to try again (y/n)? n

End of Program