

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

```
Dim A(1 To Max_Size) As Double
Dim B(1 To Max_Size) As Double
```

is the sum of

$$A[1]*B[1] + A[2]*B[2] + A[3]*B[3] + \dots + A[\text{Max\_Size}]*B[\text{Max\_Size}]$$

where Max\_Size is an integer representing size of the array.

Write a function

```
function Dot_Product(A ( ) As Double, B ( ) As Double) As Double
```

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 :

Number of data

Enter the the number of data (1 - 20) to be inputed for each array

5

OK

Cancel

Dot Product of two array of numbers

Please input 5 numbers for each array of numbers. The program finds the dot product of these two arrays of numbers.

Array A ( 1 )	<input type="text" value="2"/>	Array B ( 1 )	<input type="text" value="8"/>
Array A ( 2 )	<input type="text" value="3"/>	Array B ( 2 )	<input type="text" value="10"/>
Array A ( 3 )	<input type="text" value="4"/>	Array B ( 3 )	<input type="text" value="2"/>
Array A ( 4 )	<input type="text" value="5"/>	Array B ( 4 )	<input type="text" value="1"/>
Array A ( 5 )	<input type="text" value="6"/>	Array B ( 5 )	<input type="text" value="7"/>

Find Dot product

Exit

Dot product