```c
#include <stdio.h>

#define MAX_STRING_LENGTH 512

int main(void)
{
    //function prototype
    void MyStrcat(char[], char[]);

    //variable declarations
    char chArray_One[MAX_STRING_LENGTH], chArray_Two[MAX_STRING_LENGTH]; // A Character Array Is A String

    //code

    // *** STRING INPUT ***
    printf("\n\n");
    printf("Enter First String : \n\n");
    gets_s(chArray_One, MAX_STRING_LENGTH);

    printf("\n\n");
    printf("Enter Second String : \n\n");
    gets_s(chArray_Two, MAX_STRING_LENGTH);

    // *** STRING CONCAT ***
    printf("\n\n");
    printf("****** BEFORE CONCATENATION ******");
    printf("\n\n");
    printf("The Original First String Entered By You (i.e : 'chArray_One[]') Is : \n\n");
    printf("%s\n", chArray_One);

    printf("\n\n");
    printf("The Original Second String Entered By You (i.e : 'chArray_Two[]') Is : \n\n");
    printf("%s\n", chArray_Two);

    MyStrcat(chArray_One, chArray_Two);

    printf("\n\n");
    printf("****** AFTER CONCATENATION ******");
    printf("\n\n");
    printf("'chArray_One[]' Is : \n\n");
    printf("%s\n", chArray_One);

    printf("\n\n");
    printf("'chArray_Two[]' Is : \n\n");
    printf("%s\n", chArray_Two);

    return(0);
}

```

```c
void MyStrcat(char str_destination[], char str_source[])
{
    //function prototype
    int MyStrlen(char[]);

    //variable declarations
    int iStringLength_Source = 0, iStringLength_Destination = 0;
    int i, j;

    //code
    iStringLength_Source = MyStrlen(str_source);
    iStringLength_Destination = MyStrlen(str_destination);

    // ARRAY INDICES BEGIN FROM 0, HENCE, LAST VALID INDEX OF ARRAY WILL ALWAYS BE (LENGTH - 1)
    // SO, CONCATENATION MUST BEGIN FROM INDEX NUMBER EQUAL TO LENGTH OF THE ARRAY 'str_destination'
    // WE NEED TO PUT THE CHARACTER WHICH IS AT FIRST INDEX OF 'str_source' TO THE (LAST INDEX + 1) OF 'str_destination'
    for (i = iStringLength_Destination, j = 0; j < iStringLength_Source; i++, j++)
    {
        str_destination[i] = str_source[j];
    }

    str_destination[i] = '\0';
}

int MyStrlen(char str[])
{
    //variable declarations
    int j;
    int string_length = 0;

    //code
    // *** DETERMINING EXACT LENGTH OF THE STRING, BY DETECTING THE FIRST OCCURENCE OF NULL-TERMINATING CHARACTER ( \0 ) ***
    for (j = 0; j < MAX_STRING_LENGTH; j++)
    {
        if (str[j] == '\0')
            break;
        else
            string_length++;
    }
    return(string_length);
}

```