MERGE TWO SORTED ARRAY

```c
#include <stdio.h>
#include<conio.h>
#include <stdlib.h>


int  main()
{
    int array_1[100],array_2[100];
    int a1_size,a2_size;
    int i,j;
    int temp;
    int total;
    int size=0;
    clrscr();
    printf("Enter how much elemenet in first array : ");
    scanf("%d",&a1_size);
    printf("\nEnter %d elemenst\n",a1_size);
    for(i=0;i<a1_size;i++){
        printf("\narray_1_[%d] : ",i+1);
        scanf("%d",&array_1[i]);
    }



    printf("\nEnter how much elemenet in second array : ");
    scanf("%d",&a2_size);
    printf("\nEnter %d elemenst\n",a2_size);
    for(i=0;i<a2_size;i++){
        printf("\narray_2_[%d] : ",i+1);
        scanf("%d",&array_2[i]);
    }


    total=a1_size+a2_size;
    for(i=a1_size;i<total;i++){

        array_1[i]=array_2[size];
        size=size+1;
    }


    for(i=total;i>0;i--){
        for(j=0;j<total-1;j++){
            if(array_1[j]>array_1[j+1]){
            temp=array_1[j];
            array_1[j]=array_1[j+1];
            array_1[j+1]=temp;
            }
```

```c
        }
    }

    printf("\n...............\n");


    printf("Array elements are : \n");
    for(i=0;i<total;i++){
        printf("Array_[%d] is : %d\n",i,array_1[i]);
    }

getch();
}
```

OUTPUT


```
Enter how much elemenet in first array : 5

Enter 5 elemenst

array_1_[1] : 1

array_1_[2] : 45

array_1_[3] : 78

array_1_[4] : 99

array_1_[5] : 34

Enter how much elemenet in second array : _
```

```
Enter how much elemenet in second array : 4

Enter 4 elemenst

array_2_[1] : 2

array_2_[2] : 34

array_2_[3] : 78

array_2_[4] : 12

...............
Array elements are :
Array_[0] is : 1
Array_[1] is : 2
Array_[2] is : 12
Array_[3] is : 34
Array_[4] is : 34
Array_[5] is : 45
Array_[6] is : 78
Array_[7] is : 78
Array_[8] is : 99
```