```
#include<stdio.h>
int main() {
int arr1[30], arr2[30], res[60];
int i, j, k, n1, n2;
  printf("Enter the size of first array : ");
scanf("%d", &n1);
  printf("Enter elements in first array : ");
for (i = 0; i < n1; i++) {
scanf("%d", &arr1[i]);
}
  printf("Enter the size of second array : ");
scanf("%d", &n2);
  printf("Enter elements in first array : ");
for (i = 0; i < n2; i++) {
scanf("%d", &arr2[i]);
}
i = 0;
```

j = 0;

k = 0;

```
while (i < n1 && j < n2) \{
if (arr1[i] <= arr2[j]) {
res[k] = arr1[i];
i++;
k++;
} else {
res[k] = arr2[j];
k++;
j++;
}
}
while (i < n1) \{
res[k] = arr1[i];
i++;
k++;
}
while (j < n2) {
res[k] = arr2[j];
k++;
j++;
}
printf("\nArray merged in ascending order:");
```

```
for (i = 0; i < n1 + n2; i++)
printf("%d ", res[i]);
return (0);
}</pre>
```

```
Enter the size of first array: 5
Enter elements in first array: 10
20
30
40
50
Enter the size of second array: 6
Enter elements in first array: 55
60
65
70
675
80
Array merged in ascending order:10 20 30 40 50 55 60 65 70 75 80
...Program finished with exit code 0
Press ENTER to exit console.

Activate Windows
Go to Settings to activate Windows
Go to Settings to activate Windows
```