```c
#include <stdio.h>
int main()
{
    int arr1[20], arr2[20], k;
    int des[k], i, j, m, n;
    printf("enter the size of elements");
    printf("enter first element of array");
    scanf("%d", &m);
    for(i=0; i<m; i++)
    {
        scanf("%d", &arr1[i]);
    }
    printf("enter second element of array");
    scanf("%d", &n);
    for(j=0; j<n; j++)
    {
        scanf("%d", &n);
    }
    while(i<m && j<m)
    {
        if(arr1[i] < arr2[j])
        {
            des[k] = arr1[i];
            i++;
            k++;
        }
    else
    {
```

```c
        des[k]=arr1[j];
        j++;
        k++;
    }
}

    while (k<m)
    {
    dest[k] = arr1[i];
    i++;
    j++;
    }
    while (j<n)
    {
    des[k]=arr2[j]
    j++;
    k++;
    }

for(i=0; i<m+n; i++)
{
printf ("%d", des[i]);
}
for (j=0; j<m+n; j++)
{
printf ("%d", des[j]);
}
printf ("the sorted array is:");

return 0;
}
```