

```

#include<iostream.h>
#include<conio.h>
void main()
{
clrscr();
int m,n,a1[100],a2[100],a3[200],i,j,k;
cout<<"Enter the size of array1:";
cin>>m;
cout<<"Enter the array elements in ascending order:";
for(i=0;i<m;i++)
{ cin>>a1[i];
}
cout<<"Enter the size of array 2:";
cin>>n;
cout<<"Enter the array elements in ascending order:";
for(j=0;j<n;j++)
{ cin>>a2[j];
} i=j=k=0;
while(i<m&& j<n)
{ if(a1[i]<a2[j])
{ a3[k]=a1[i];
i++;
k++;
} a3[k]=a2[j];
j++;
k++;
}
while(i<m)
{
a3[k]=a1[i];
i++;
k++;
}
while(j<n)
{ a3[k]=a2[j];
j++;
k++;
}
cout<<"The new array is:";
for(i=0;i<m+n;i++)
{
cout<<a3[i]<<" ";
}
getch();
}

```

```
Enter the size of array1:4
Enter the array elements in ascending order:1
3
5
7
Enter the size of array 2:3
Enter the array elements in ascending order:2
4
6
The new array is:1 2 3 4 5 6 7
```