```
void merge(int a[], int low, int mid, int high)
   int len2 = high - mid;
   int left[len1], right[len2]; //declare two arrays left and right
       right[j] = a[mid + 1 + j]; //put elements from m+1 to h in right
       if (left[i] <= right[j])</pre>
           a[k++] = right[j++];
       a[k++] = right[j++];
void mergeSort(int a[], int low, int high)
   if (low < high)
       mid = low + (high - low) / 2;
       mergeSort(a, low, mid);
       mergeSort(a, mid + 1, high);
```

## **OUTPUT**:

```
User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && gcc mergesort.c -o mergesort && "/c/ada lab/"mergesort
Enter number of elements: 7
Enter the elements: 10 0 -5 9 2 1 0
After sorting :-5 0 0 1 2 9 10
```