EXPERIMENT NO.08

CODE:

```
ехр8.с
                                                                                                                                                                        Save ≡ _ @ 😢
                              sorting.c
                                                                                               mergesort.c
                                                                                                                                                                   exp8.c
 1 #include <stdio.h>
2 #include <stdlib.h>
3
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                                                                                                   mergesort.c
            Open ▼ 🗐
         *exp9.c
                                                                                                                                                 mergesort.c
                    if (l < r) {
   int m = l + (r - l) / 2;
   mergeSort(arr, l, m);
   mergeSort(arr, m + 1, r);
   merge(arr, l, m, r);</pre>
                     int arr[] = { 12, 11, 13, 5, 6, 7 };
int arr_size = sizeof(arr) / sizeof(arr[0]);
                     printf("\nSorted array is \n");
printArray(arr, arr_size);
return 0;
   ∷
                                                                                                                                    C ▼ Tab Width: 8 ▼ Ln 41, Col 32 ▼ INS
```

OUTPUT:

```
adminl4@adminl4-HP-ProDesk-400-G7-Microtower-PC:~$ gedit exp8.c
adminl4@adminl4-HP-ProDesk-400-G7-Microtower-PC:~$ gcc exp8.c
adminl4@adminl4-HP-ProDesk-400-G7-Microtower-PC:~$ ./a.out
Given array is
12 11 13 5 6 7

Sorted array is
5 6 7 11 12 13
adminl4@adminl4-HP-ProDesk-400-G7-Microtower-PC:~$
```

SUBMITTED BY:SHAMAL BHANUDAS DEORE CLASS/DIV:SY-IT-A

ROLL NO.18