EXPERIMENT 8:

SORTING AN ARRAY

CODE:

```
#include <stdio.h>

int main() {
   int arr[100], n, i, j, temp;

   printf("Enter number of elements: ");
   scanf("%d", &n);

   printf("Enter %d elements:\n", n);
   for(i = 0; i < n; i++) {
      scanf("%d", &arr[i]);
   }

   // Bubble Sort - Ascending Order
   for(i = 0; i < n - 1; i++) {
      for(j = 0; j < n - i - 1; j++) {
         if(arr[j] > arr[j + 1]) {
            temp = arr[j];
            arr[j] = arr[j + 1];
            arr[j + 1] = temp;
         }
      }
   }

   printf("Sorted array in ascending order:\n");
```

```
    for(i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }

    return 0;
}
```

OUTPUT: