

```
/*Implement selection sort to sort the elements of any user entered array in ascending order. */
```

```
#include <stdio.h>
```

```
void selectionsort(int[], int);
```

```
main()
```

```
{
    int a[20], i, n;
    printf("Enter the number of elements in the array");
    scanf("%d", &n);
    printf("Enter the array elements");
    for (i = 0; i < n; i++)
    {
        scanf("%d \t", &a[i]);
    }
    printf("The unsorted array is %d", a[i]);
}
```

```
void selectionsort(int a[], int n)
```

```
{
    int i, j, min, temp;
    for (i = 0; i < n - 1; i++)
    {
        min = i;
        for (j = i + 1; j < n; j++)
        {
            if (a[min] > a[j])
                ;
            min = j;
        }
        if (min != i)
        {
            temp = a[i];
            a[i] = a[min];
            a[min] = temp;
        }
    }
    printf("Sorted list in ascending order:\n");

    for (i = 0; i < n; i++)
        printf("%d\n", a[i]);

    return 0;
}
```

ANIRUDH PANDA  
ROLL - 16(D2)