## Expt no 8

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syit 22

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4 #include <stdio.h>
 #include <stdlib.h>
8 int smallest(int arr[], int k, int n);
void selection_sort(int arr[], int n);
1 void main(int argc, char *argv[])
3 int arr[10], i, n;
4 printf("\n Enter the number of elements in the array: ");
5 scanf("%d", &n);
6 printf("\n Enter the elements of the array: ");
selection_sort(arr, n);
9 \text{ printf("} \setminus n \text{ The sorted array is: } \setminus n");
0 for(i=0;i<n;i++) printf(" %d\t", arr[i]);</pre>
2 int smallest(int arr[], int k, int n)
3 { int pos = k, small=arr[k], i;
if(arr[i]< small)</pre>
    small = arr[i];
                       pos = i; }
 return pos;
1 void selection_sort(int arr[],int n)
int k,
4 pos,
5 temp;
6 for(k=0;k<n;k++)</pre>
8 pos = smallest(arr, k, n);
9 temp = arr[k];
0 arr[k] = arr[pos];
1 arr[pos] = temp;
```