## Exp 8 Sanskar srivastava

## Code

Sy-it 57

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

