```c
int smallest(int arr[], int k, int n);

void selection_sort(int arr[], int n);


void main()

{

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]);

}

selection_sort(arr, n);

printf("\n The sorted array is: \n");

for(i=0;i<n;i++)

printf(" %d\t", arr[i]);

}


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)
```

```c
{
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;

}

}
```