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Roll no.: 04

SYIT

Program:

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#include <stdlib.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,file:///home/dl0414/ray-so-export.png small=arr[k], i;
for(i=k+1;i<n;i++)</pre>
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++)</pre>
pos = smallest(arr, k, n);
temp = arr[k];
arr[k] = arr[pos];
arr[pos] = temp;
```

OutPut: