

```
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   DATE       :6/10/22
   PROGRAM    :SELECTION SORT
   INSTITUTION :MES COLLEGE OF ENGINEERING */
```

```
#include<stdio.h>
void main()
{
    int i,min,j,temp,n,a[100],k;
    printf("Enter the number of elements");
    scanf("%d",&n);
    printf("Enter the array");
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<n;i++)
    {
        printf("Pass %d: ",i+1);
        min=i;
        for(j=i+1;j<n;j++)
        {
            if(a[j]<a[min])
            {
                min=j;
            }
        }

        temp=a[i];
        a[i]=a[min];
        a[min]=temp;
        for(k=0;k<n;k++)
        {
            printf("%d\t",a[k]);
        }
        printf("\n");
    }
    printf("\n");
    printf("Sorted array is: ");
    for(i=0;i<n;i++)
        printf("%d\t",a[i]);
}
```

Output :-

```
Enter the number of elements
5
Enter the array
64
25
12
22
```

10

Pass 1: 10	25	12	22	64
Pass 2: 10	12	25	22	64
Pass 3: 10	12	22	25	64
Pass 4: 10	12	22	25	64
Pass 5: 10	12	22	25	64

Sorted array is: 10      12      22      25      64