## 13.quick sort :-

```
#include<stdio.h>
void quicksort(int x[20],int first,int last)
{
int pivot,j,temp,i;
if(first<last)</pre>
pivot=first;
i=first;
j=last;
while(i<j)
while(x[i]<=x[pivot]&&i<last)
i++;
while(x[j]>x[pivot])
j--;
if(i<j)
{
temp=x[i];
x[i]=x[j];
x[j]=temp;
}
 }
temp=x[pivot];
x[pivot]=x[j];
x[j]=temp;
quicksort(x,first,j-1);
quicksort(x,j+1,last);
 }
}
int main()
```

```
{
int x[20],size,i;
printf("\tQuick sort\n");
printf("----\n");
printf(" How many numbers you want to sort?: ");
scanf("%d",&size);
printf("\n Enter %d elements: \n",size);
for(i=0;i<size;i++)
scanf("%d",&x[i]);
quicksort(x,0,size-1);
printf("\n Sorted elements after applying quick sort: \n\n");
for(i=0;i<size;i++)
printf(" %d",x[i]);
return 0;
}
وا (globals)
        Process exited after 15.62 seconds with return value 0
             Warnings: 0
Output Filename: C:\Users\Naga Narendra B\Downloads\l3.exe
Output Size: 129.8046875 KiB
Compilation Time: 0.38s
```

Line: 26 Col: 24 Sel: 0 Lines: 45 Length: 785 Insert