```c
#include<stdio.h>
#include<conio.h>
void shell(int a[],int n);
int i,j,k,n,temp,array[25];
void main()
{
 clrscr();
 printf("\n SHELL SORT");
 printf("\n **********");
 printf("\n Enter the limit:");
 scanf("%d",&n);
 printf("\n Enter the elements\n\n");
 for(i=0;i<n;i++)
  scanf("%d",&array[i]);
 shell(array,n);
 printf("\n Sorted list:");
 for(i=0;i<n;i++)
  printf("\n %d",array[i]);
  getch();
}

void shell(int a[],int n)
{
 for(i=(n+1)/2;i>=1;i/=2)
 {
  for(j=i;j<=n-1;j++)
  {
   temp=a[j];
   k=j-i;
   while(k>=0&&temp<a[k])
   {
    a[k+i]=a[k];
    k=k-i;
   }
   a[k+i]=temp;
  }
 }
}
```

-->>SAMPLE INPUT AND OUTPUT:

 Enter the limit: 5

Enter the elements

5
4
3
2
1

Sorted list:

1
2
3
4
5