***Insertion Sort:***

#include<stdio.h>

int main()

{

int n,array[1000],i,d,t;

printf("Enter number of elements:\n");

scanf("%d",&n);

printf("Enter %d integers \n",n);

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

{

scanf("%d",&array[i]);

}

for(i=1;i<=n-1;i++)

{

d=i;

while(d>0&&array[d]<array[d-1])

{

t=array[d];

array[d]=array[d-1];

array[d-1]=t;

d--;

}

}

printf("Sorted list in ascending order: \n");

for(i=0;i<=n-1;i++)

{

printf("%d \n",array[i]);

}

return 0;

}