**16)insertion sort**

**Program:**

#include<stdio.h>

int main()

{

int i,j,count,temp,number[20];

printf("how many numbers u are going to enter");

scanf("%d",&count);

printf("enter the elements");

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

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

for(i=1;i<count;i++)

{

temp=number[i];

j=i-1;

while((temp<number[j])&&(j>=0))

{

number[j+1]=number[j];

j=j-1;

}

number[j+1]=temp;

}

printf("order of sorted elements");

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

printf("%d",number[i]);

return 0;

**output:** 