PROGRAM 16:

INSERTION SORT:

|  |
| --- |
| #include<stdio.h> |
|  | int main() |
|  | { |
|  | int a[10],n,i,j,temp; |
|  | printf("enter the n value"); |
|  | scanf("%d",&n); |
|  | printf("enter the elements"); |
|  | for(i=0;i<n;i++) |
|  | { |
|  | scanf("%d",&a[i]); |
|  | } |
|  | for(i=0;i<n;i++) |
|  | { |
|  | j=i; |
|  | while(j>0 && a[j]<a[j-1]) |
|  | { |
|  | temp=a[j]; |
|  | a[j]=a[j-1]; |
|  | a[j-1]=temp; |
|  | j--; |
|  | } |
|  |  |
|  | } |
|  | for(i=0;i<n;i++) |
|  | { |
|  | printf("%d",a[i]); |
|  | } |
|  |  |
|  |  |
|  | } |

OUTPUT:

