Name: Gokulavadhani U

Reg no: 124176029

Program: Insertion Sort

#include<stdio.h>  
void main()  
{  
int i,j,n,a[20],temp;  
printf("\n enter the value of n:");  
scanf("%d",&n);  
printf("\n enter the numbers:");  
for(i=0;i<n;i++)  
{  
scanf("%d",&a[i]);  
}  
for(i=1;i<n;i++)  
{  
temp=a[i];  
j=i-1;  
while(j>=0 && a[j]>temp)  
{  
a[j+1]=a[j];  
j=j-1;  
}  
         a[j+1]=temp;  
}  
printf("\n sorted elements ");  
for(i=0;i<n;i++)  
printf("%d \t",a[i]);  
}