**PRACTICAL EXAM**

**OBJECTIVE:** Write a program to implement bubble sort on n numbers using recursion

**CODE:**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

void bubble(int a[],int n)

{ int temp,i;

if(n==1)

return;

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

{if(a[i]>a[i+1])

{temp=a[i];

a[i]=a[i+1];

a[i+1]=temp;

}

}

bubble(a,(n-1));

}

void display(int a[],int n)

{int i;

printf("\nelements after sorting is done are\n");

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

printf("%d\t",a[i]);

}

main()

{int n,i;

printf("\nenter the no. of elements to be sorted");

scanf("%d",&n);

int a[n];

printf("\nenter the elements");

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

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

printf("\nelements before sorting are:\n");

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

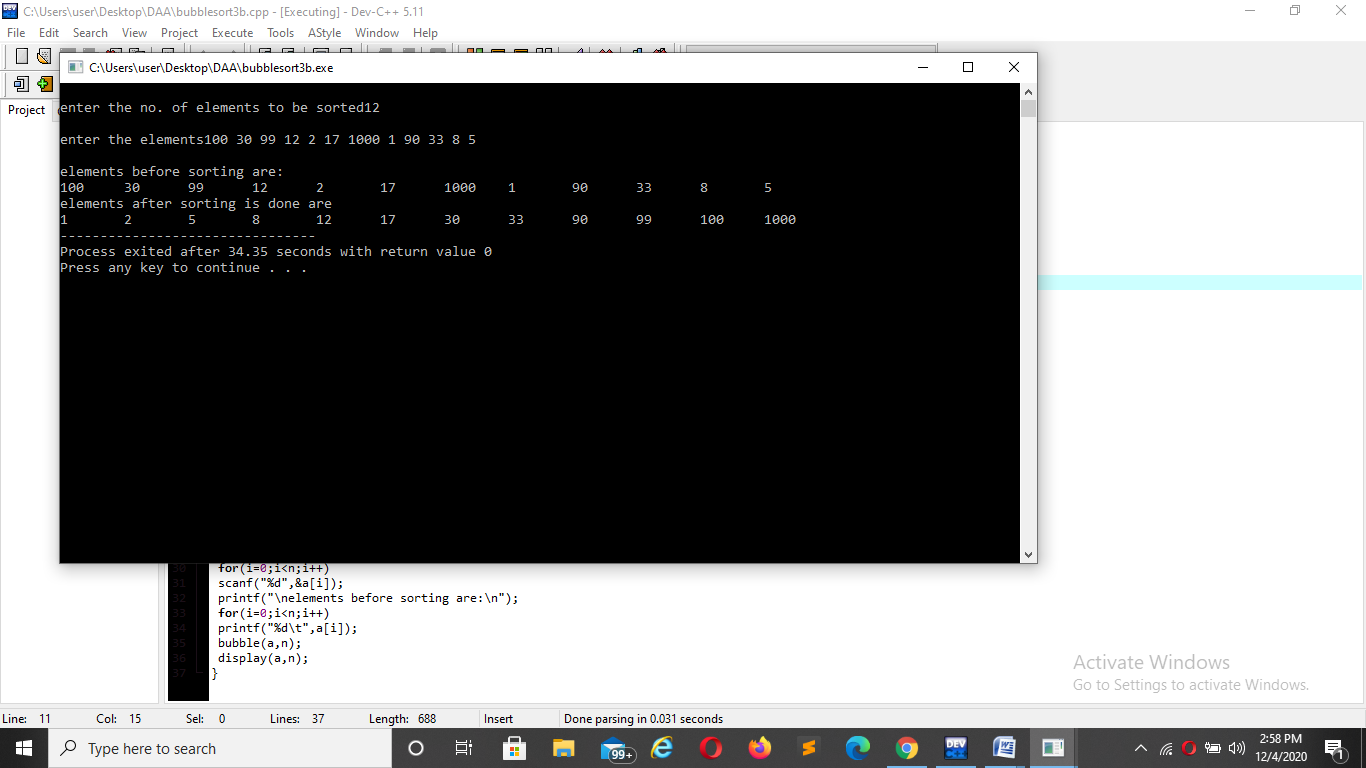
printf("%d\t",a[i]);

bubble(a,n);

display(a,n);

}

**OUTPUT:**

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