**Q. Write a program to implement insertion sorting algorithm :**

#include <stdio.h>

int a[10],i,j,n,temp;

int insertion\_sort()

{

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

{

temp = a[i];

j=i-1;

while(j>=0 && a[j]>temp)

{

a[j+1]=a[j];

j--;

}

a[j+1]=temp;

}

printf("Sorted array : \n");

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

{

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

}

}

int main()

{

printf("Enter size of array : ");

scanf("%d",&n);

printf("Enter array elements : \n");

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

{

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

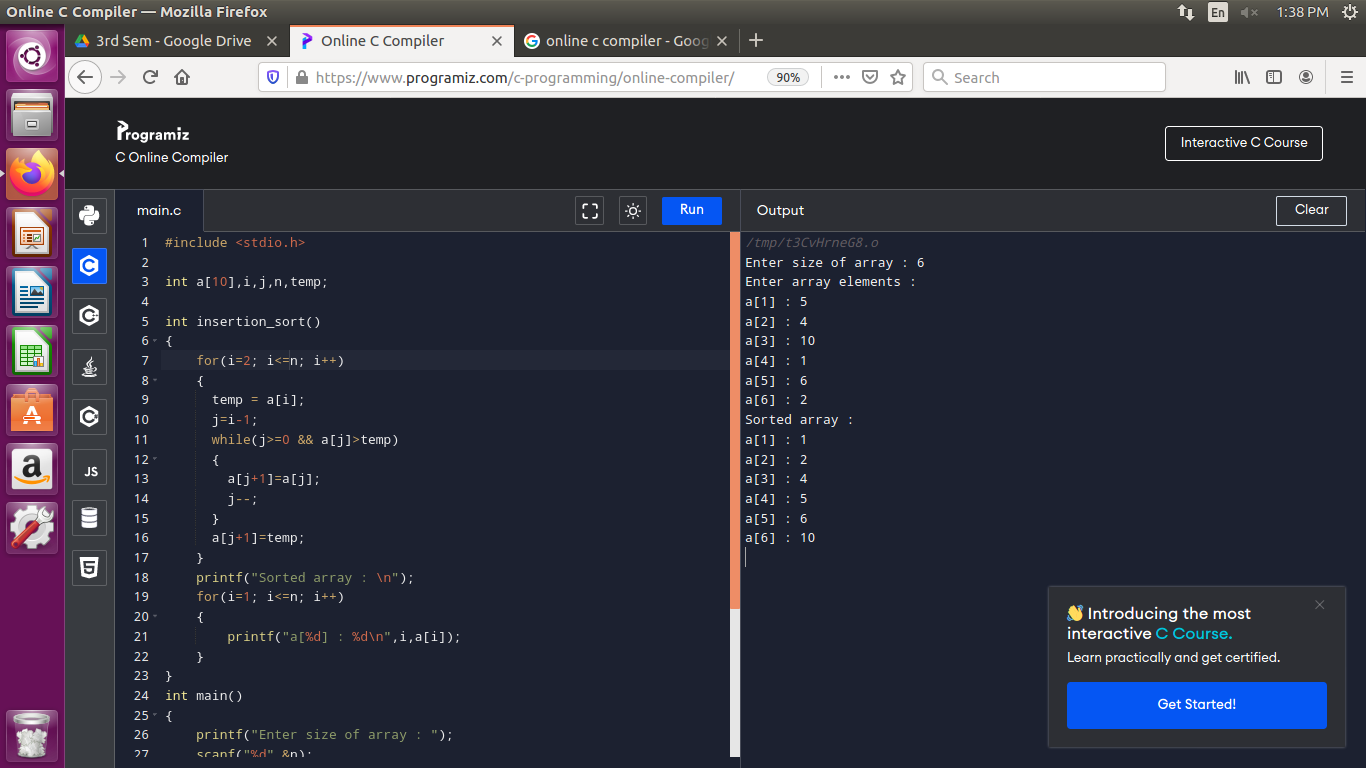
scanf("%d",&a[i]);

}

insertion\_sort();

}

**OUTPUT :**

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