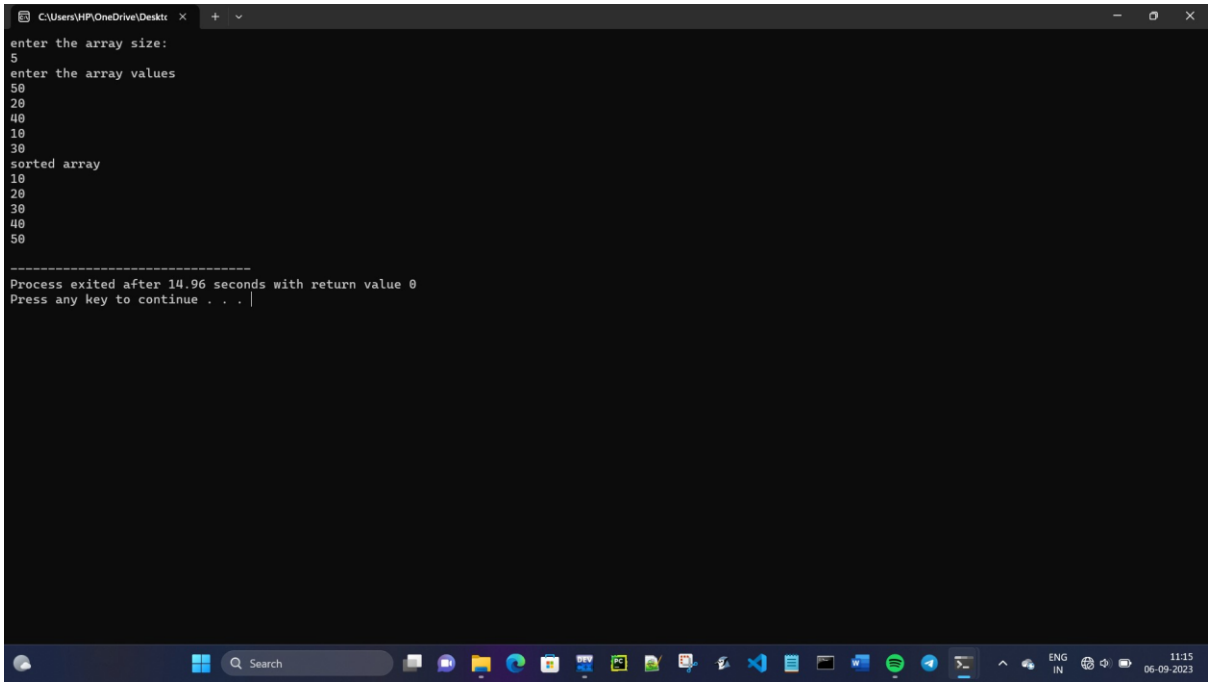
/*insertion sort*/

```
#include<stdio.h>
void insertion_sort(int arr[],int n);
int main(){
   int n,i;
   printf("enter the array size:\n");
   scanf("%d",&n);
   int arr[n];
   printf("enter the array values\n");
   for(i=0;i<n;i++){
      scanf("%d",&arr[i]);
   }
   insertion_sort(arr,n);
}
void insertion_sort(int arr[],int n){
        int i,j,temp;
        for(i=1;i<n;i++){
                temp=arr[i];
                j=i-1;
                while(j>=0 && temp<arr[j]){
                        arr[j+1]=arr[j];
                        j--;
                }
                arr[j+1]=temp;
        }
        printf("sorted array\n");
   for(i=0;i<n;i++){
      printf("%d\n",arr[i]);
   }
}
```


C:\Users\HP\OneDrive\Deskto
enter the array size:
5
enter the array values
50
20
40
10
30
sorted array
10
20
30
40
50

Process exited after 14.96 seconds with return value 0
Press any key to continue . . .
Search
ENG
IN
11:15
06-09-2023