

lab 4



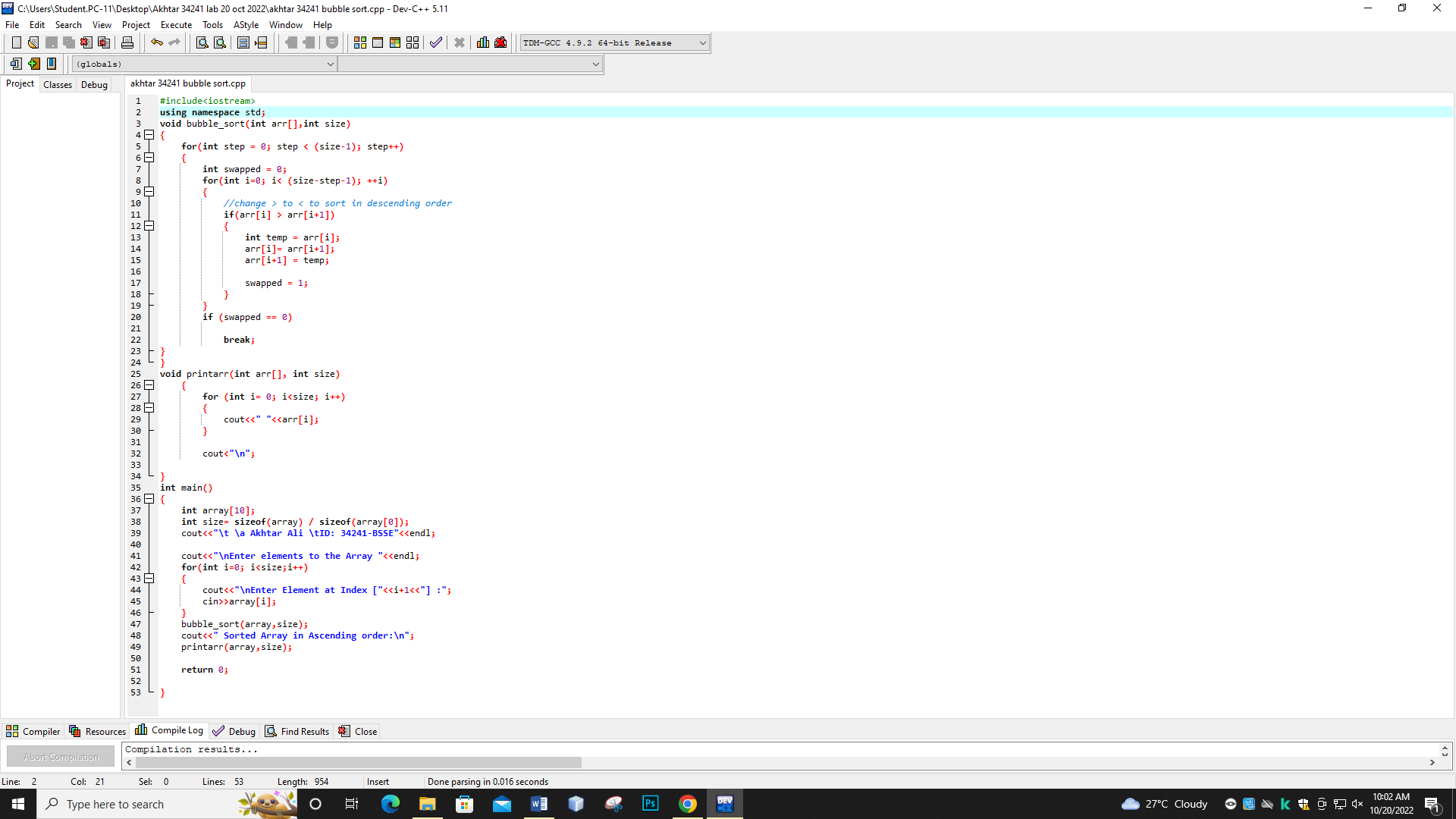
NAME = AKHTAR ALI

ID = 34241

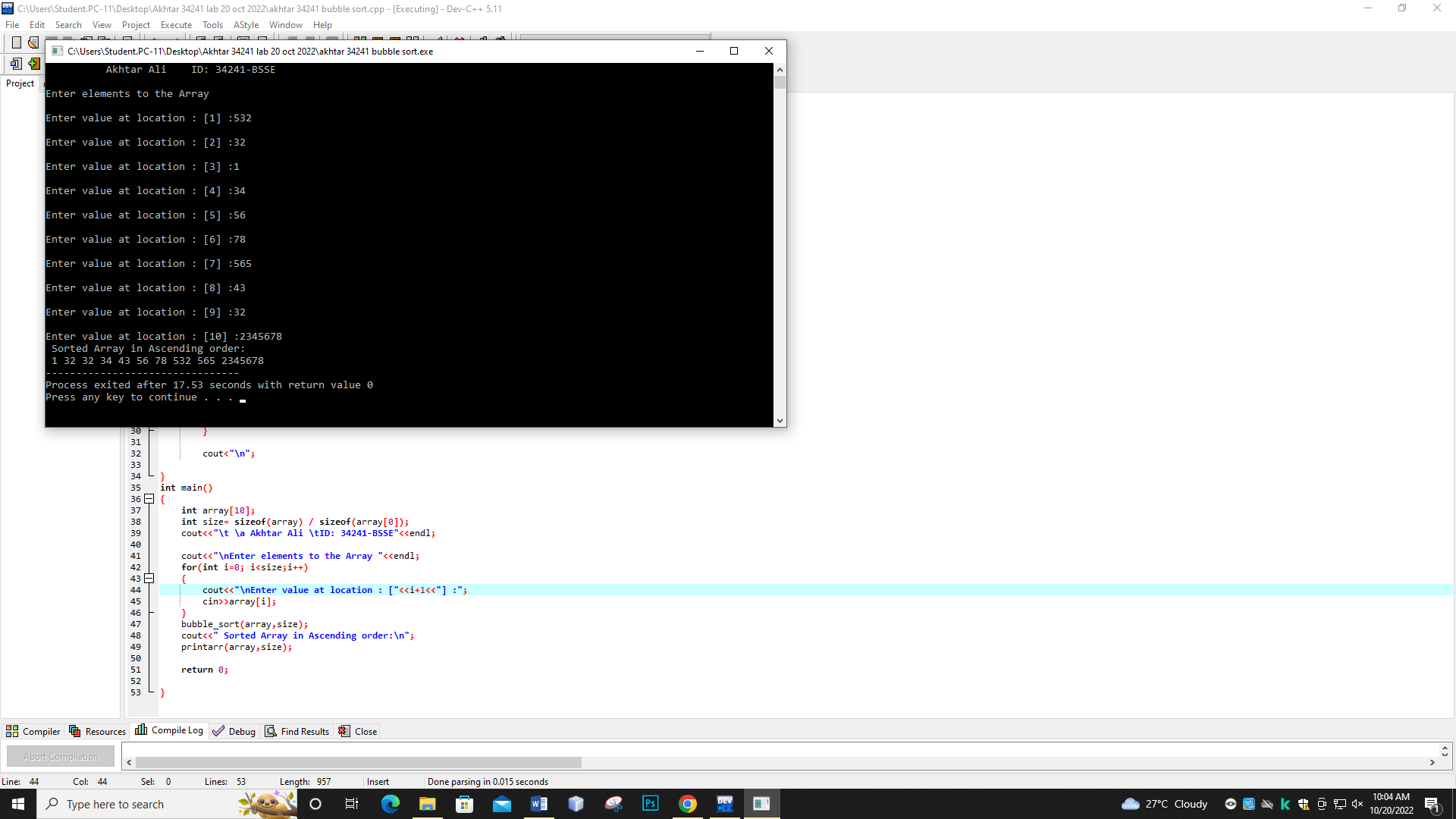
Submitted to MAM NABEELA KAUSAR

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* Bubble sort :



OUTPUT :



#include<iostream>

using namespace std;

void bubble\_sort(int arr[],int size)

{

for(int step = 0; step < (size-1); step++)

{

int swapped = 0;

for(int i=0; i< (size-step-1); ++i)

{

//change > to < to sort in descending order

if(arr[i] > arr[i+1])

{

int temp = arr[i];

arr[i]= arr[i+1];

arr[i+1] = temp;

swapped = 1;

}

}

if (swapped == 0)

break;

}

}

void printarr(int arr[], int size)

{

for (int i= 0; i<size; i++)

{

cout<<" "<<arr[i];

}

cout<"\n";

}

int main()

{

int array[10];

int size= sizeof(array) / sizeof(array[0]);

cout<<"\t \a Akhtar Ali \tID: 34241-BSSE"<<endl;

cout<<"\nEnter elements to the Array "<<endl;

for(int i=0; i<size;i++)

{

cout<<"\nEnter value at location : ["<<i+1<<"] :";

cin>>array[i];

}

bubble\_sort(array,size);

cout<<" Sorted Array in Ascending order:\n";

printarr(array,size);

return 0;

}