**Lab No 11**

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**(Q1)**

#include<iostream>

using namespace std;

void asterisk(int \*a)

{

for(int i=1;i<=\*a;i++)

{

cout<<"\*";

}

}

int main()

{

int num;

cout<<"Enter a integer ";

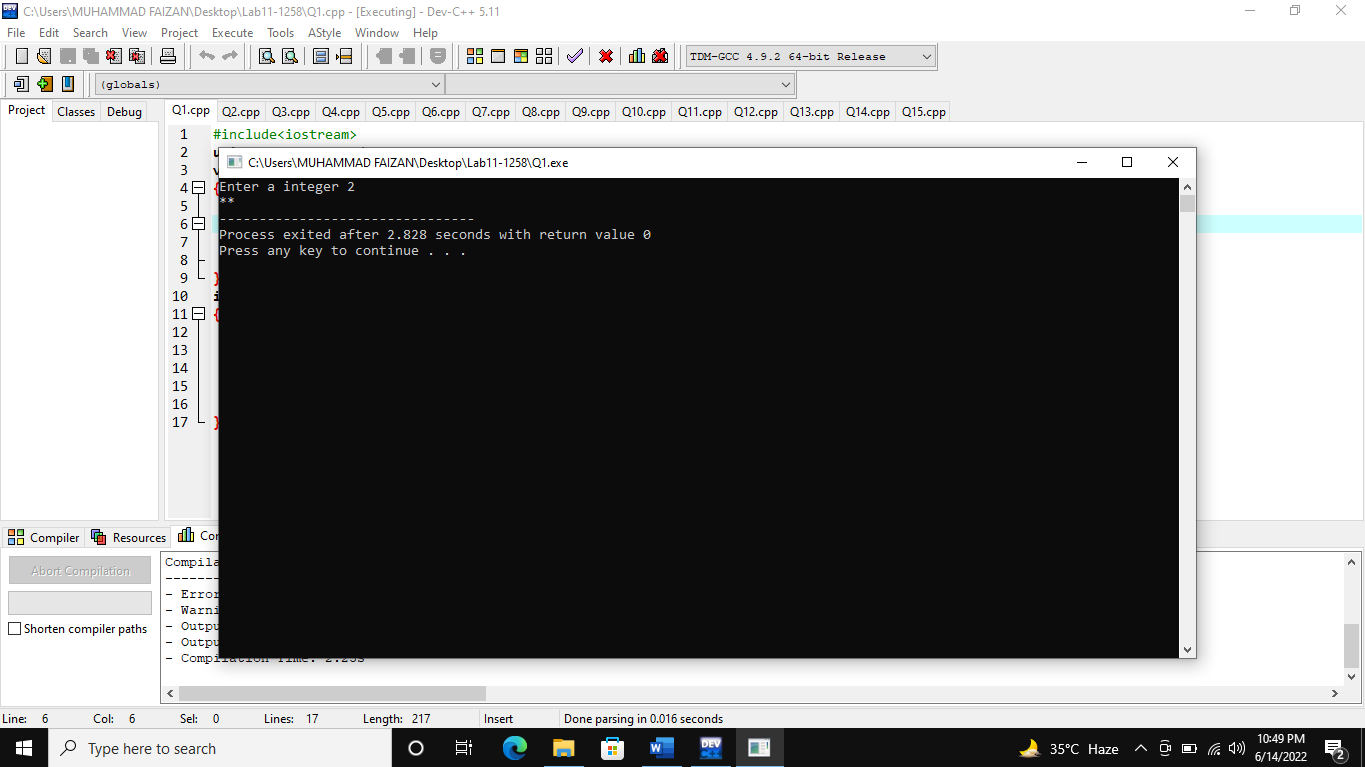
cin>>num;

asterisk(&num);

return 0;

}

**Output**

****

**(Q2)**

#include<iostream>

using namespace std;

void rectangle(int \*num, char \*ch)

{

for(int i=1;i<=\*num;i++)

{

for(int j=0;j<=\*num;j++)

{

cout<<\*ch;

}

cout<<endl;

}

}

int main()

{

int num;

char ch;

cout<<"Enter a integer for size: ";

cin>>num;

cout<<"Enter a character: ";

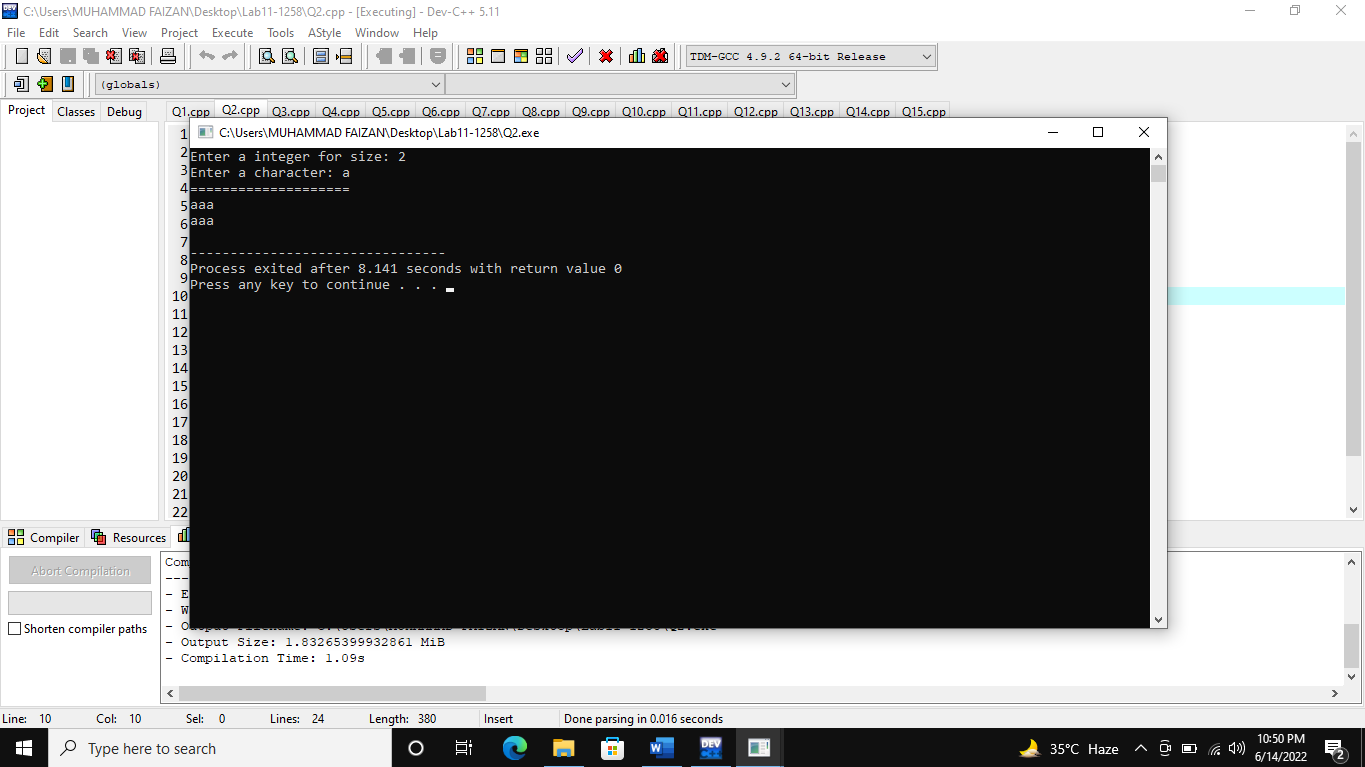
cin>>ch;

cout<<"===================="<<endl;

rectangle(&num,&ch);

}

**Output**

****

**(Q3)**

#include<iostream>

using namespace std;

void avg(int \*num1,int \*num2,int \*num3,int \*num4,int \*num5)

{

float avg;

int sum=0;

sum=\*num1+\*num2+\*num3+\*num4+\*num5;

avg=sum/5.0;

cout<<"The average is "<<avg;

}

int main()

{

int a,b,c,d,e;

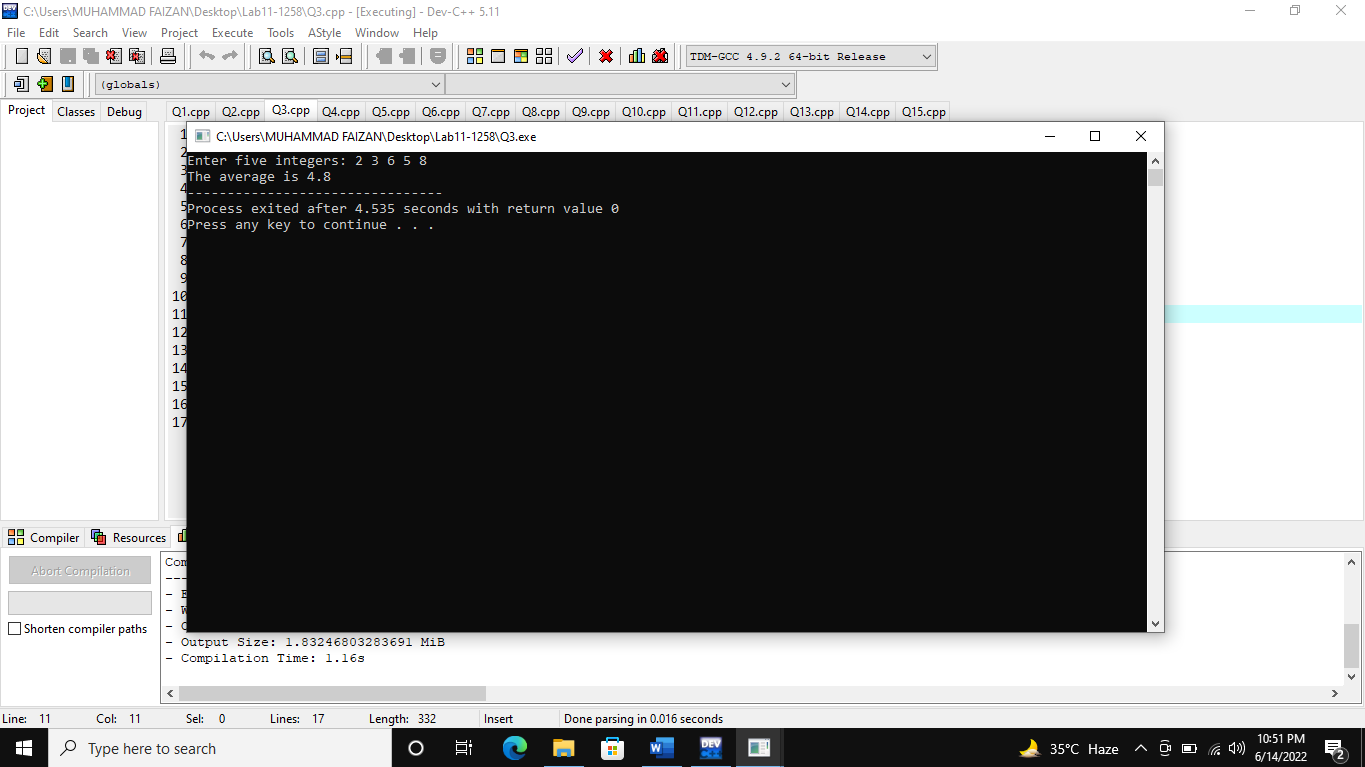
cout<<"Enter five integers: ";

cin>>a>>b>>c>>d>>e;

avg(&a,&b,&c,&d,&e);

}

**Output**



**(Q4)**

#include<iostream>

using namespace std;

void display(int \*num)

{

for(int i=1;i<=\*num;i++)

{

cout<<"#"<<endl;

}

}

int main()

{

int a;

for(int i=1;i<=5;i++)

{

cout<<"Enter integer number(between 1 to 20) "<<i<<" : ";

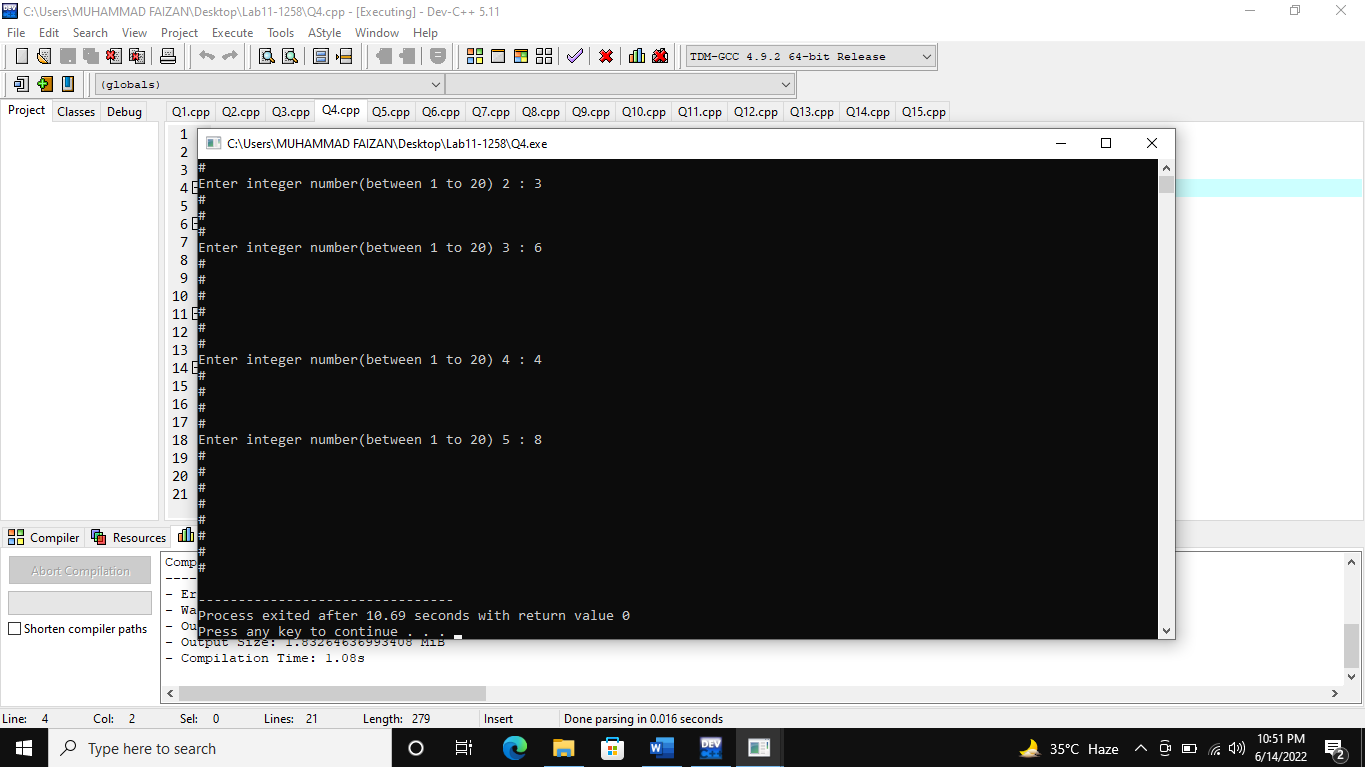
cin>>a;

display(&a);

}

}

**Output**



**(Q5)**

#include<iostream>

using namespace std;

void fact(int \*num)

{

int fact=1;

for(int i=1;i<=\*num;i++)

{

fact=fact\*i;

}

cout<<"Factorial is "<<fact;

}

int main()

{

int num;

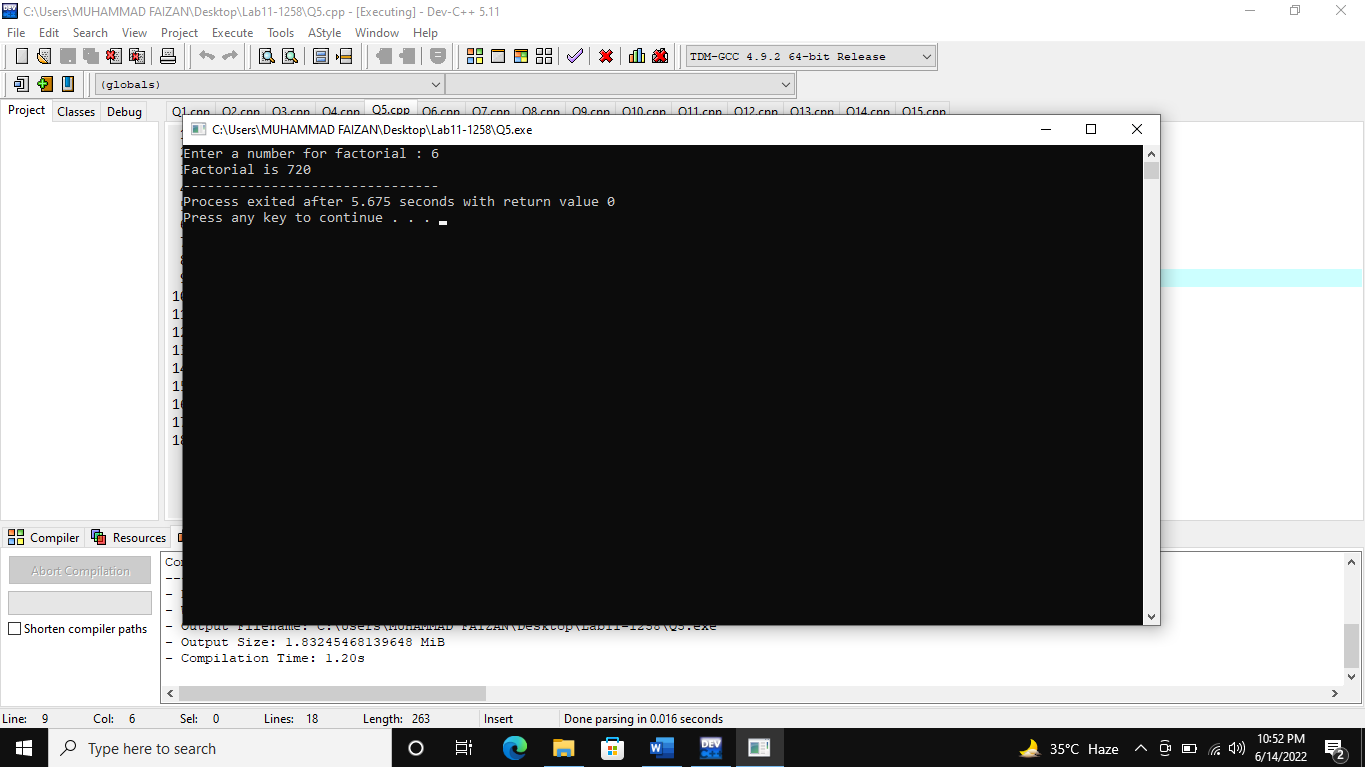
cout<<"Enter a number for factorial : ";

cin>>num;

fact(&num);

}

**Output**



**(Q6)**

#include<iostream>

using namespace std;

float area(int \*r)

{

float pi=3.1416;

float area;

area=pi\*(\*r)\*(\*r);

cout<<"Area of circle is "<<area;

}

int main()

{

int r;

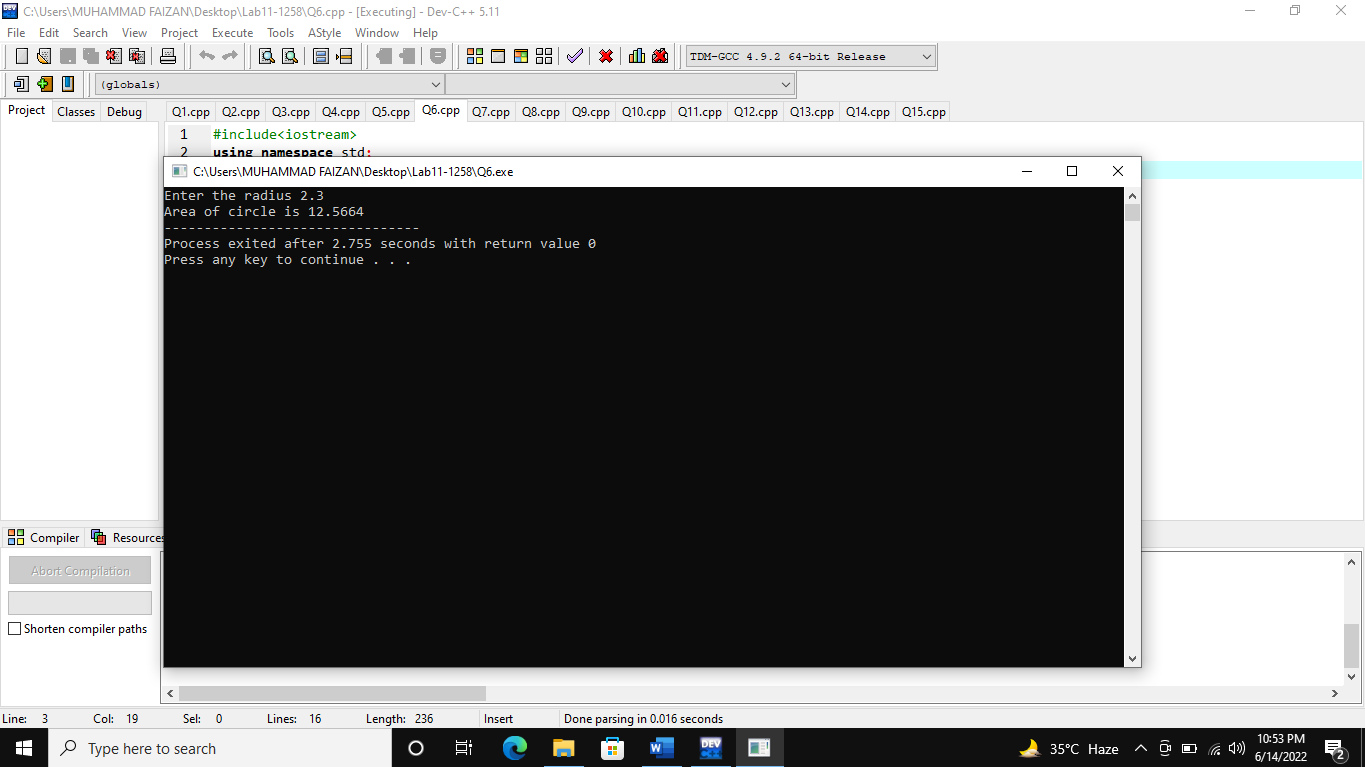
cout<<"Enter the radius ";

cin>>r;

area(&r);

}

**Output**



**(Q7)**

#include<iostream>

using namespace std;

bool multiple(int \*num1, int \*num2)

{

if(\*num1%\*num2==0)

{

return 1;

}

else if(\*num1!=\*num2)

{

return 0;

}

}

int main()

{

int a,b;

cout<<"Enter Two numbers ";

cin>>a>>b;

int x=multiple(&a,&b);

if(x==true)

{

cout<<"The first number is multiple of other"<<endl;

}

else

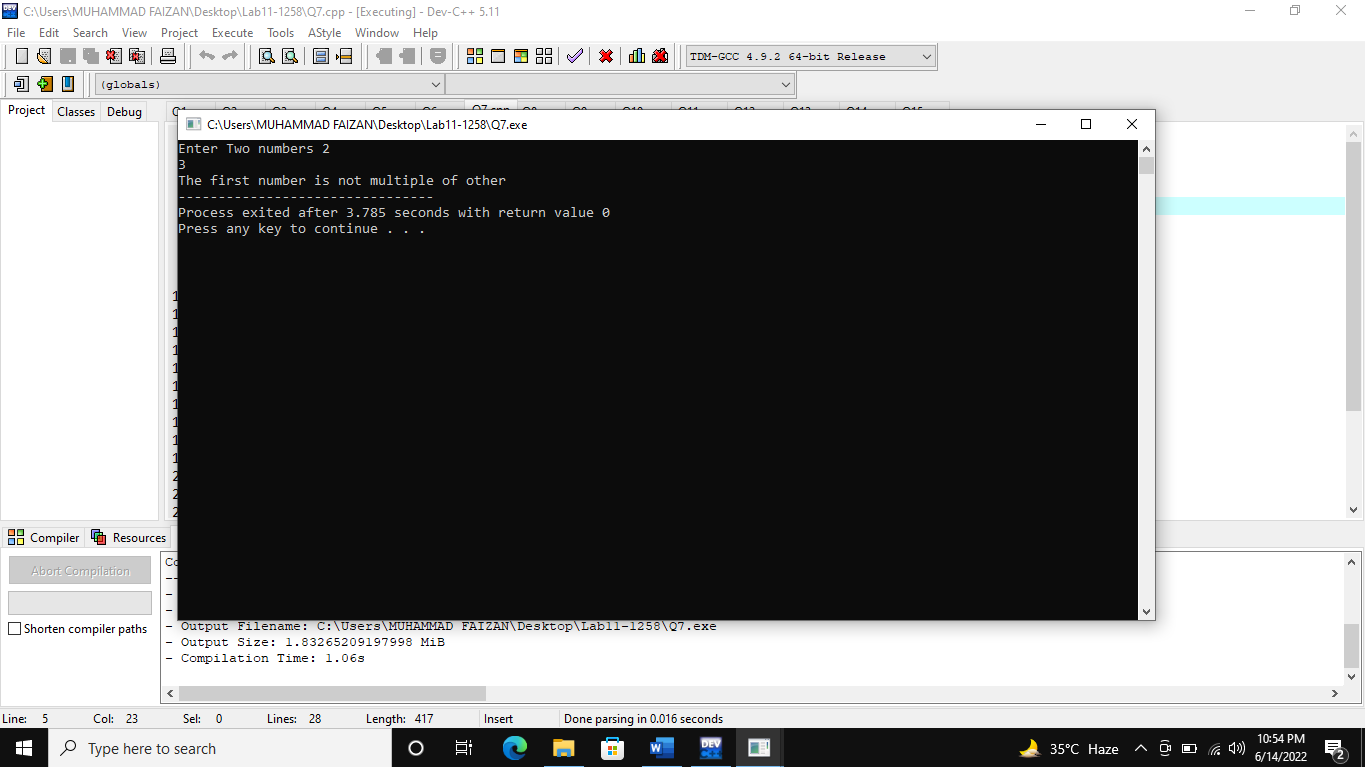
{

cout<<"The first number is not multiple of other";

}

}

**Output**

****

**(Q8)**

#include<iostream>

using namespace std;

int main()

{

float \*ptr1,\*ptr2;

float a=10.5;

ptr1=&a;

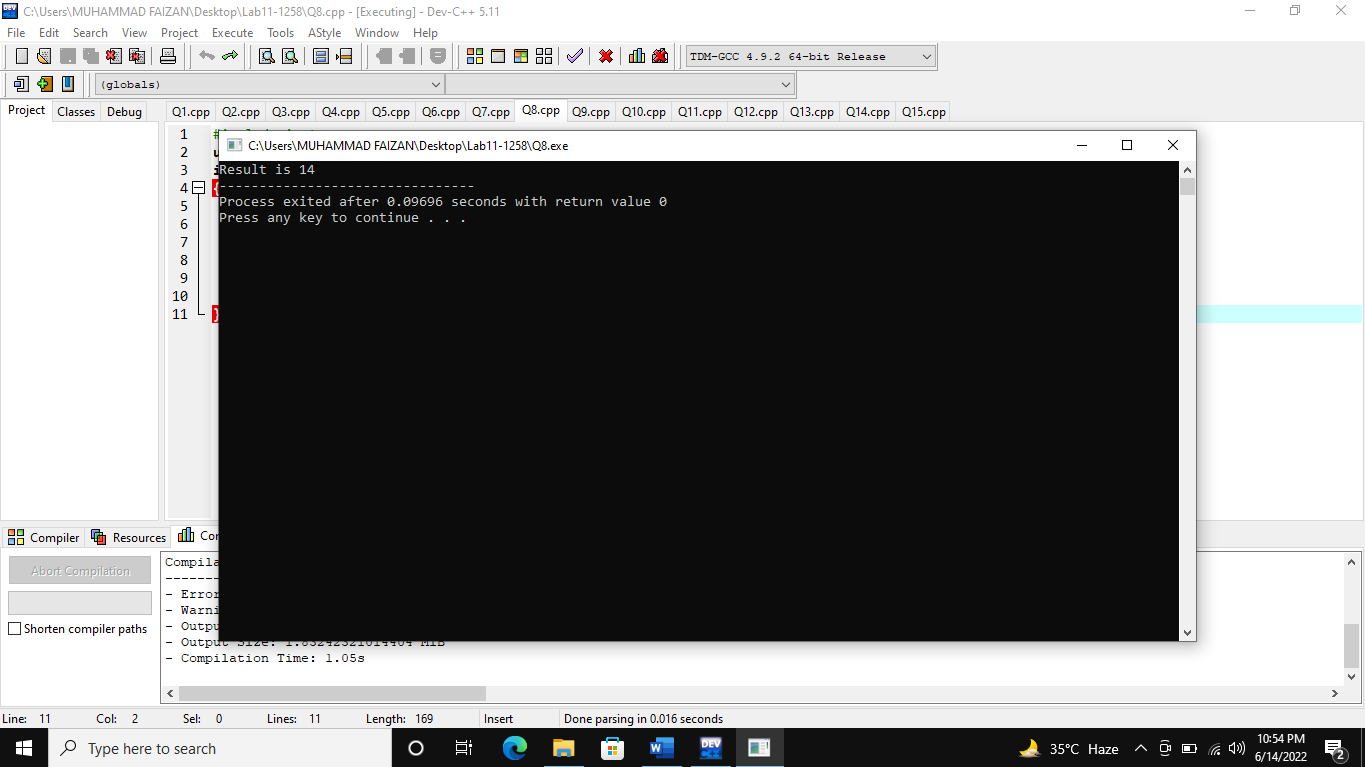
ptr2=ptr1;

\*ptr1=\*ptr2+3.5;

cout<<"Result is "<<\*ptr1;

}

**Output**

****

**(Q9)**

#include<iostream>

using namespace std;

int main()

{

int \*ptr;

int a=10;

ptr=&a;

cout<<"Next adress is "<<endl;

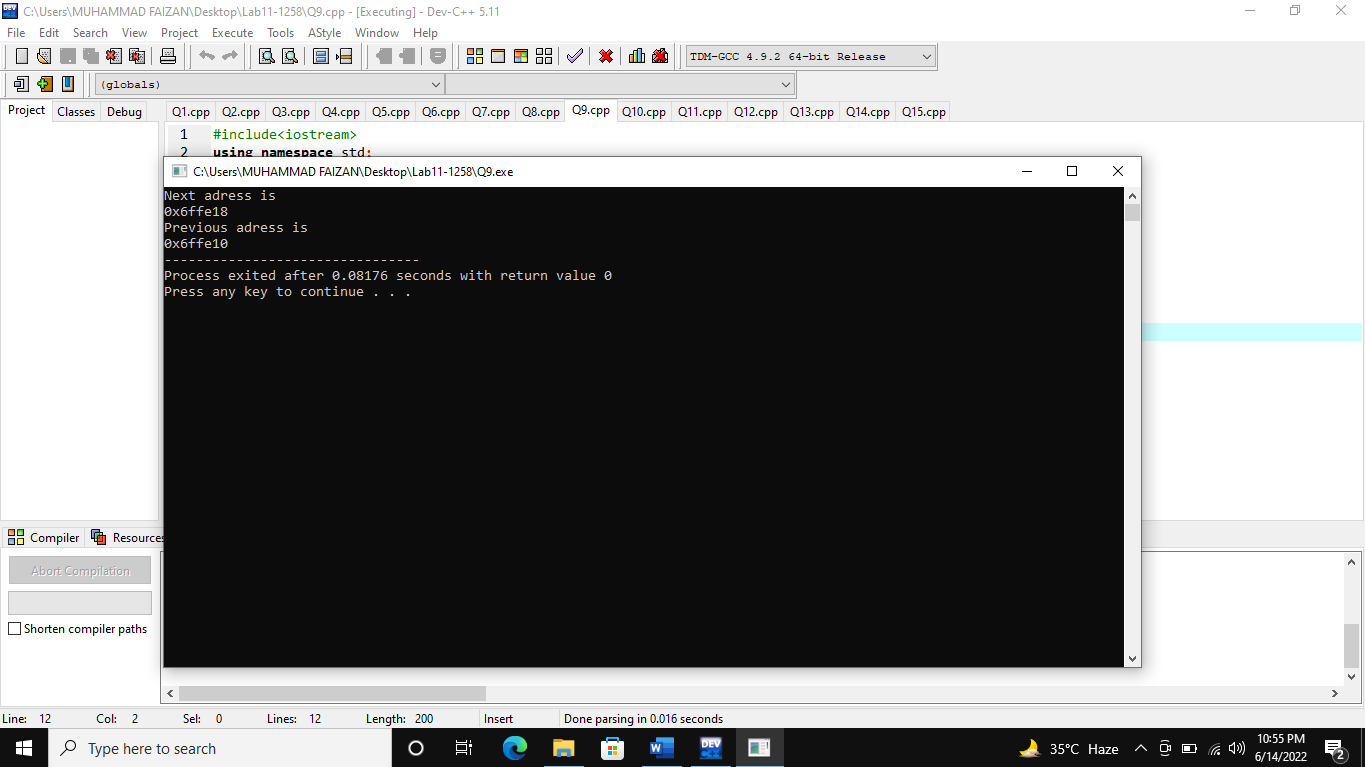
cout<<ptr+1<<endl;

cout<<"Previous adress is "<<endl;

cout<<ptr-1;

}

**Output**

****

**(Q10)**

#include<iostream>

using namespace std;

int main()

{

double arr[5];

cout<<"Enter Array ";

for(int i=0;i<=4;i++)

{

cin>>arr[i];

}

double \*ptr;

ptr=arr;

cout<<"Elements are "<<endl;

for(int i=0;i<=4;i++)

{

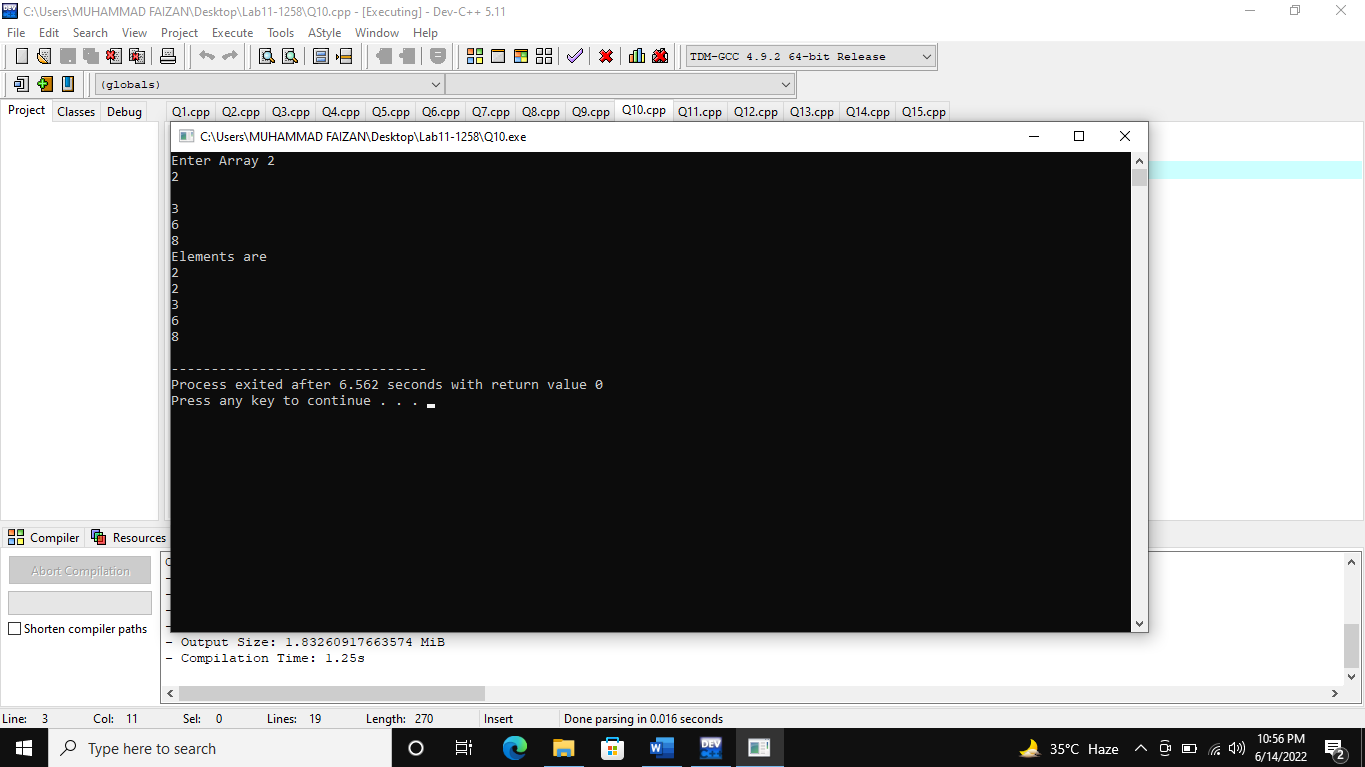
cout<<\*ptr<<endl;

\*ptr++;

}

}

**Output**

****

**(Q11)**

#include<iostream>

using namespace std;

int main()

{

int arr[10];

cout<<"Enter Array ";

for(int i=0;i<=9;i++)

{

cin>>arr[i];

}

int \*ptr;

ptr=arr;

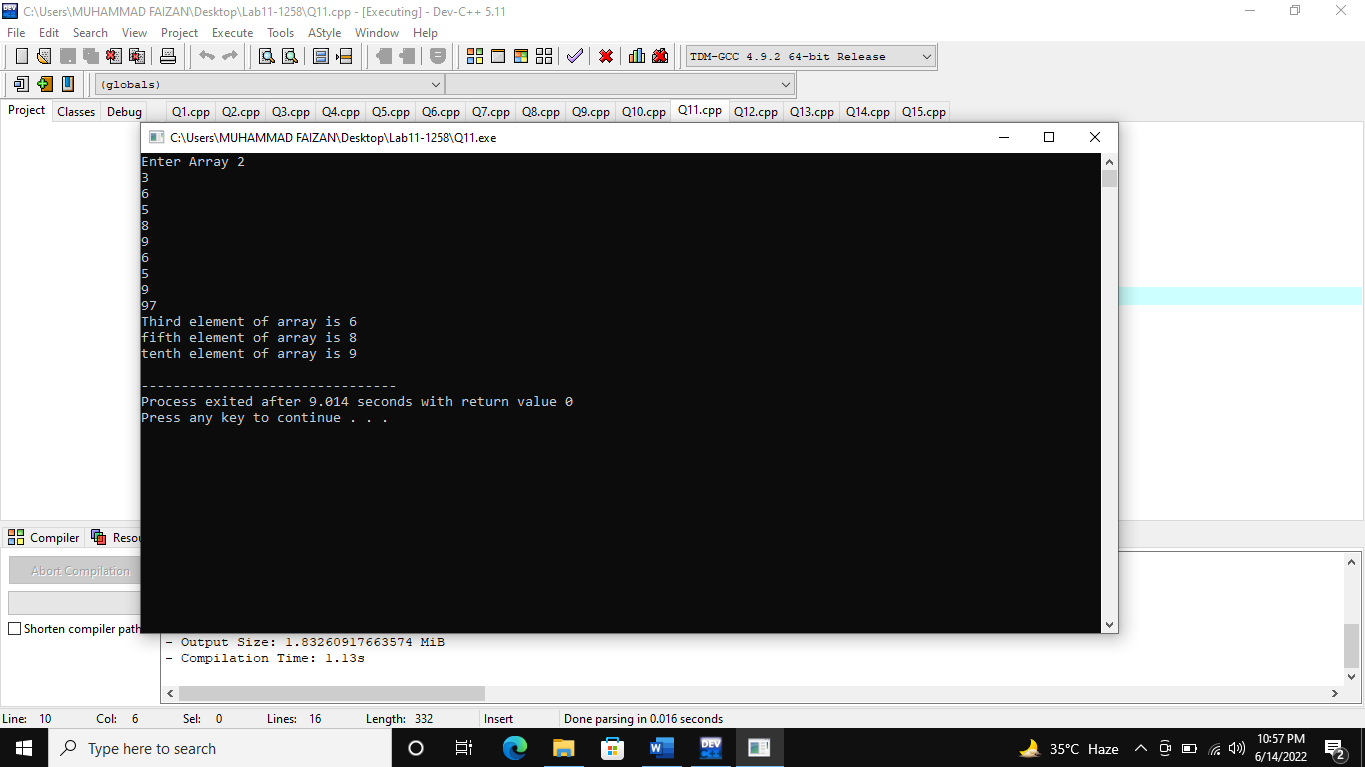
cout<<"Third element of array is "<<\*(ptr+2)<<endl;

cout<<"fifth element of array is "<<\*(ptr+4)<<endl;

cout<<"tenth element of array is "<<\*(ptr+8)<<endl;

}

**Output**

****

**(Q12)**

#include<iostream>

using namespace std;

int main()

{

int a[]={1,2,3,4,5};

int \*ptr;

ptr=&a[4];

cout<<"Reverse is "<<endl;

for(int i=0;i<=4;i++)

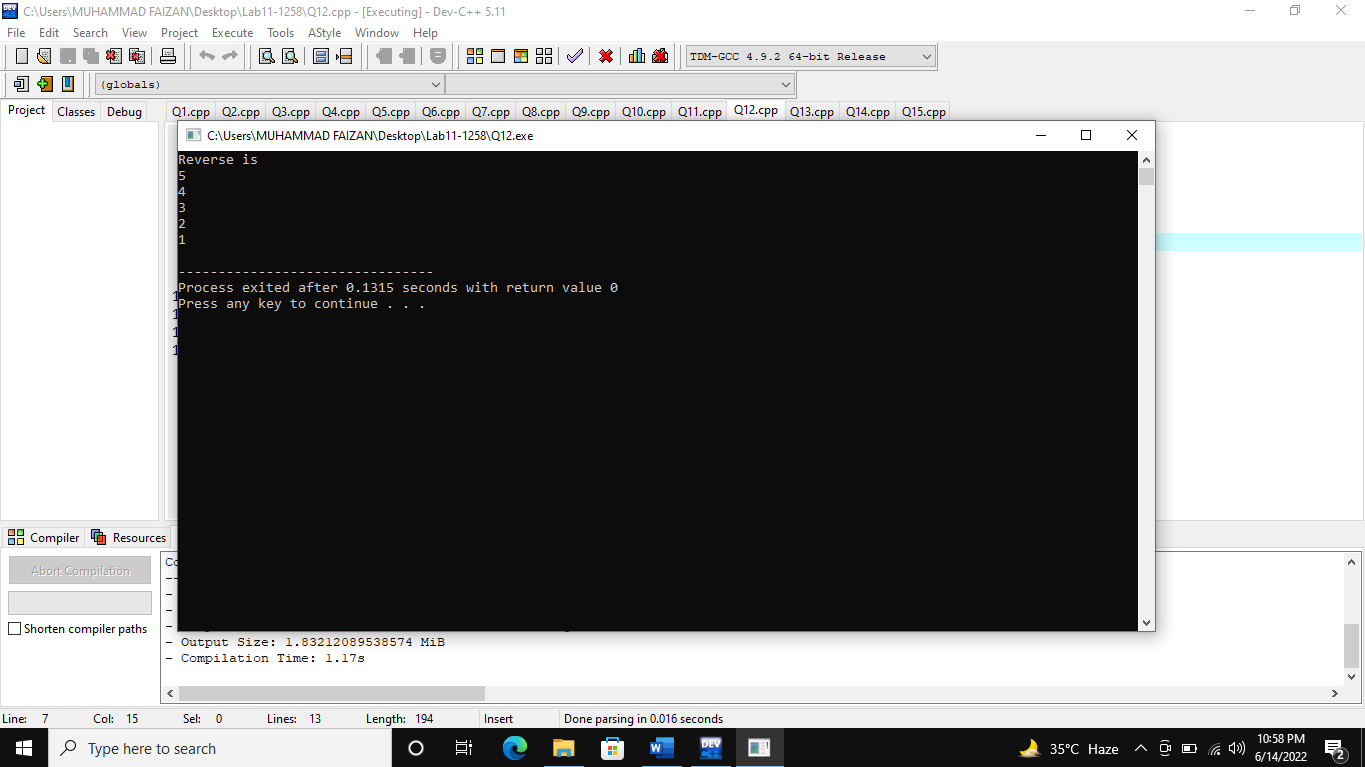
{

cout<<\*(ptr-i)<<endl;

}

}

**Output**

****

**(Q13)**

#include<iostream>

using namespace std;

int main()

{

char a[]="this is a text code";

char \*ptr;

ptr=&a[18];

cout<<"Reverse is "<<endl;

for(int i=0;i<=18;i++)

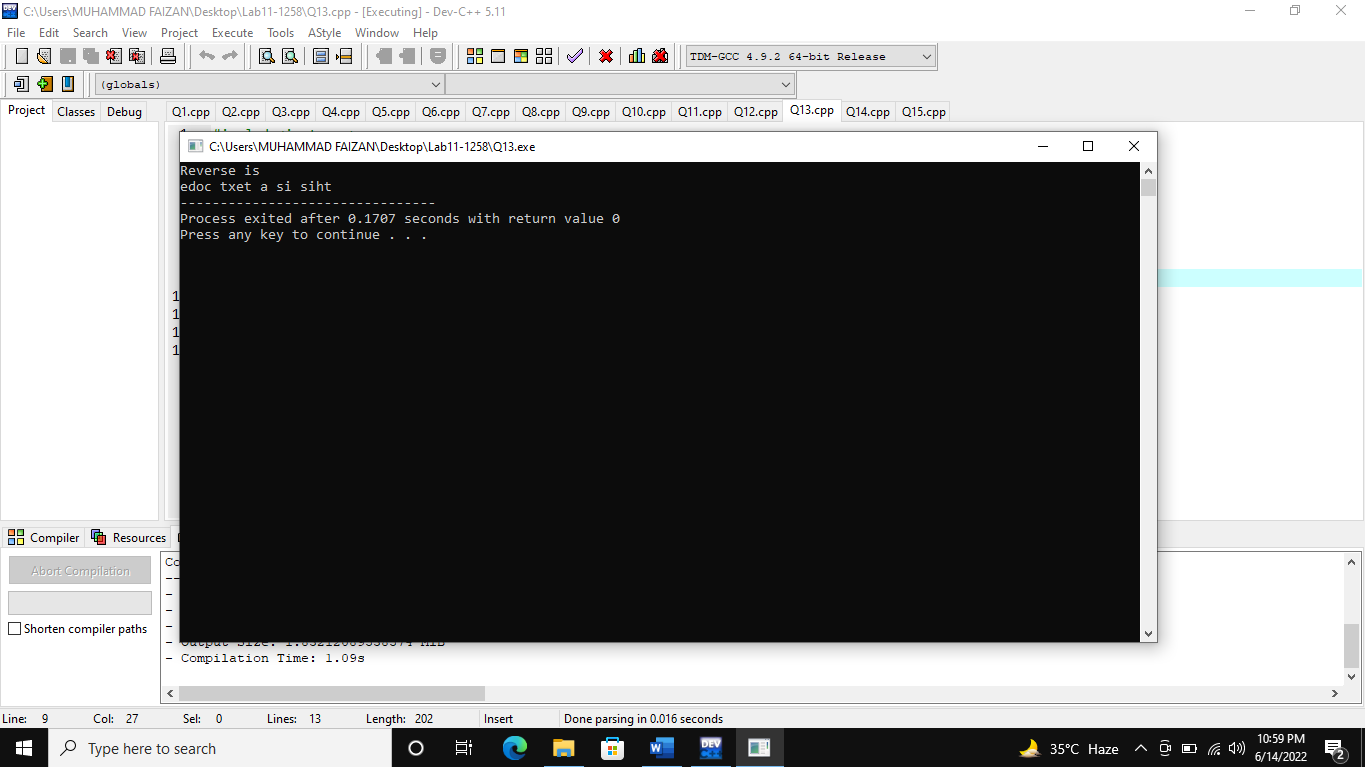
{

cout<<\*(ptr-i);

}

}

**Output**

****

**(Q14)**

#include<iostream>

using namespace std;

void avg (float \*ptr1, float \*ptr2, float \*ptr3){

cout<<"Average is : "<<(\*ptr1+\*ptr2+\*ptr3)/3;

}

int main(){

float array[10];

cout<<"Enter value of array : ";

for(int i=0; i<10; i++){

cin>>array[i];

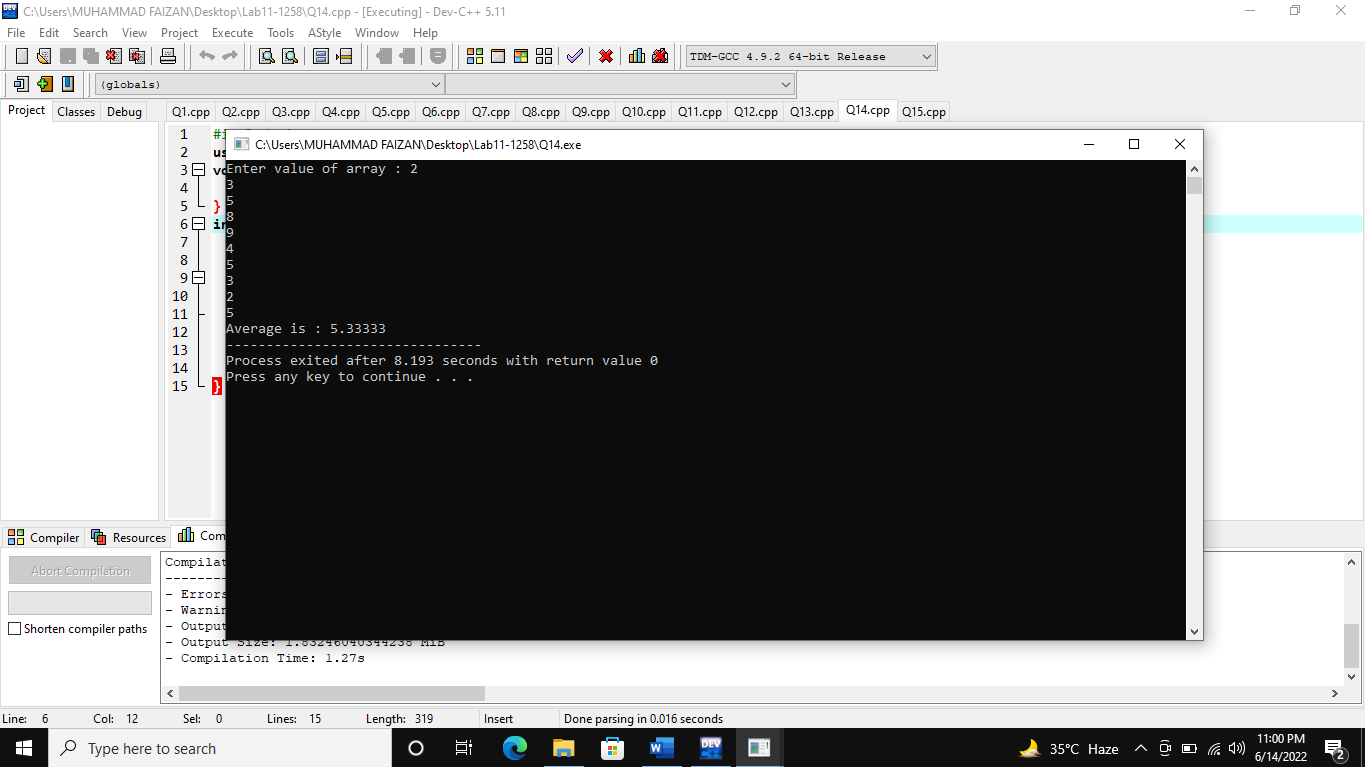
}

avg(&array[0],&array[4],&array[9]);

return 0;

}

**Output**



**(Q15)**

#include<iostream>

using namespace std;

void swap (int \*ptr1, int \*ptr2){

int temp = \*ptr1;

\*ptr1=\*ptr2;

\*ptr2=temp;

}

int main(){

int array[5], array2[5];

cout<<"Enter value of array : ";

for(int i=0; i<5; i++){

cin>>array[i];

}

cout<<"Enter value of 2nd array array : ";

for(int i=0; i<5; i++){

cin>>array2[i];

}

swap(array,array2);

for(int i=0; i<5; i++){

cout<<array[i];

}

cout<<endl;

for(int i=0; i<5; i++){

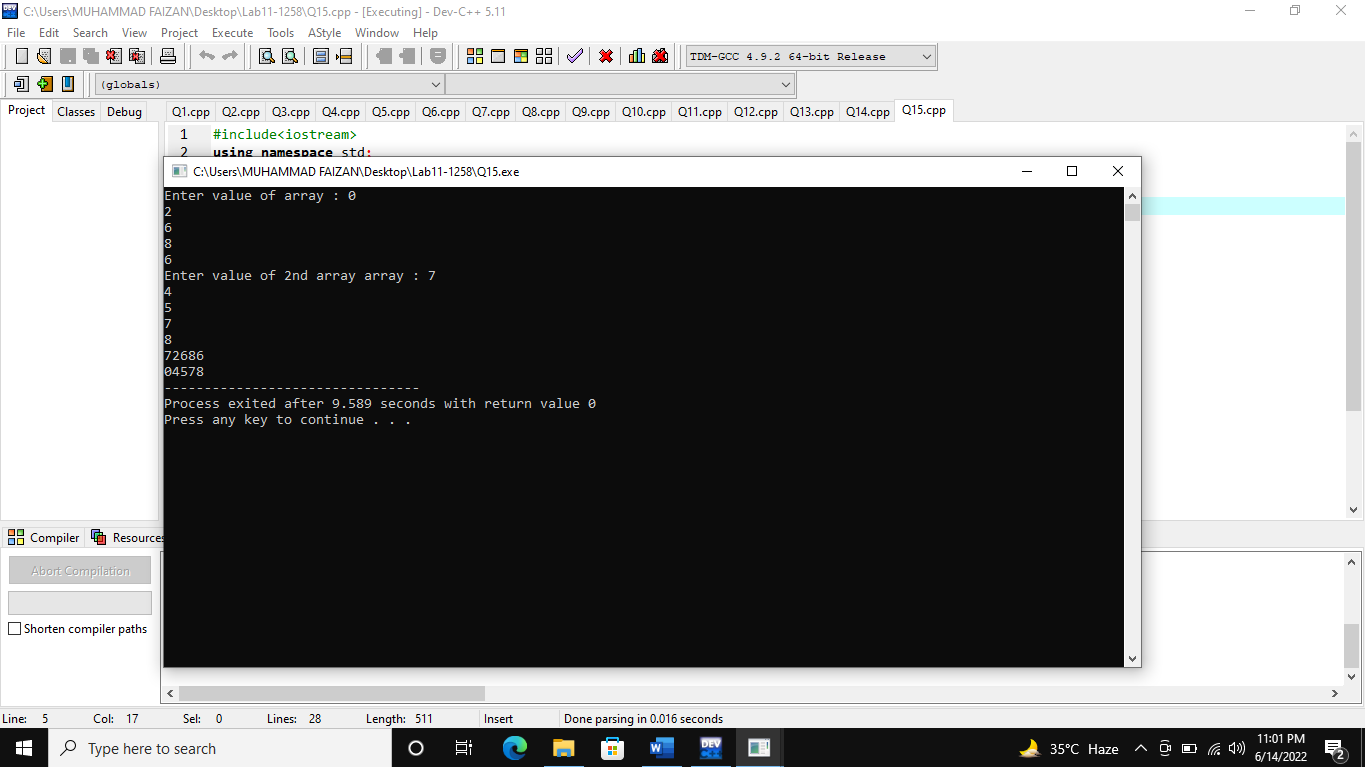
cout<<array2[i];

}

return 0;

}

**Output**



**(Q16)**

#include<iostream>

using namespace std;

void input(int \*ptr){

cout<<"Enter 5 elements of array : ";

for(int i=0; i<5; i++,ptr++){

cin>>\*ptr;

}

}

void output(int \*ptr){

cout<<"Five elements of array are : ";

for(int i=0; i<5; i++,ptr++){

cout<<\*ptr<<" ";

}

}

int main(){

int array[5];

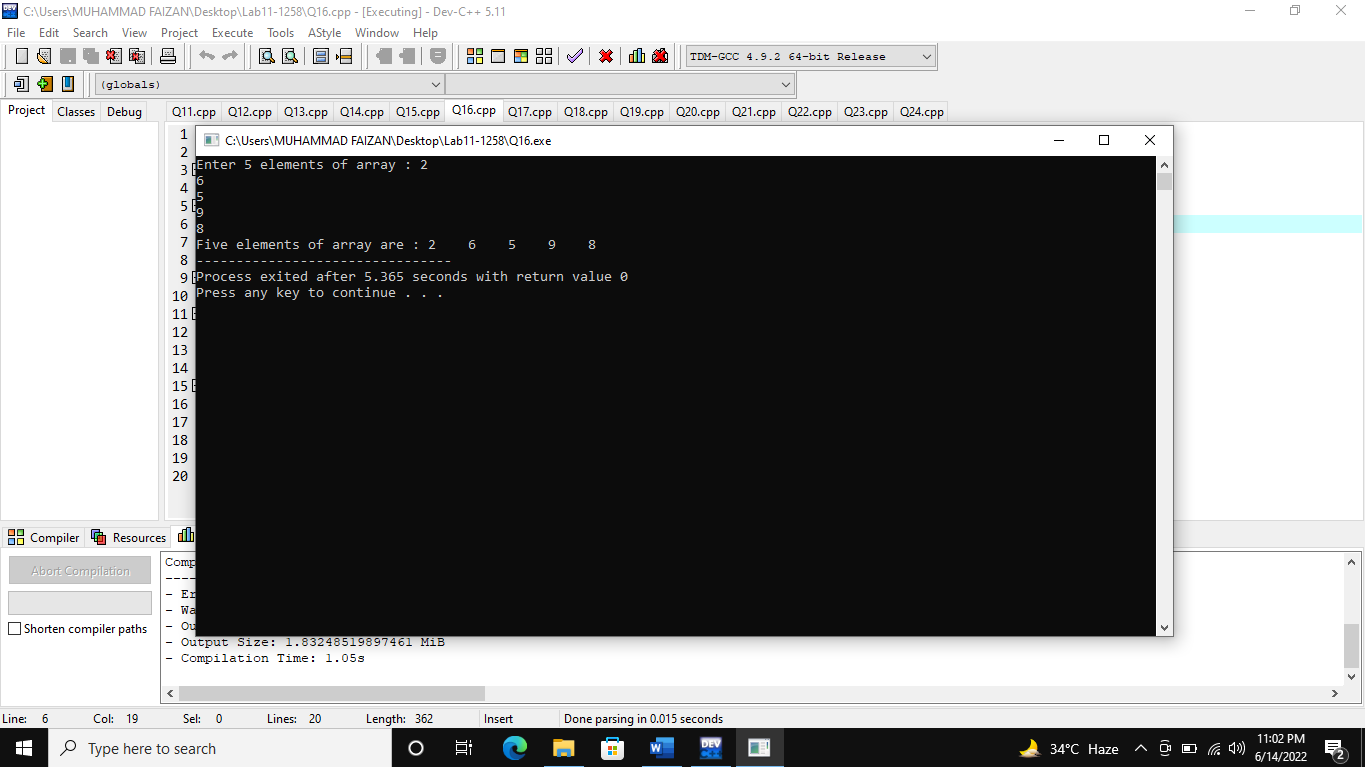
input(array);

output(array);

return 0;

}

**Output**



**(Q17)**

#include<iostream>

using namespace std;

int main(){

int \*ptr1,\*ptr2,\*ptr3;

ptr1= new int;

ptr2= new int;

ptr3= new int;

\*ptr1= 10;

\*ptr2= 10;

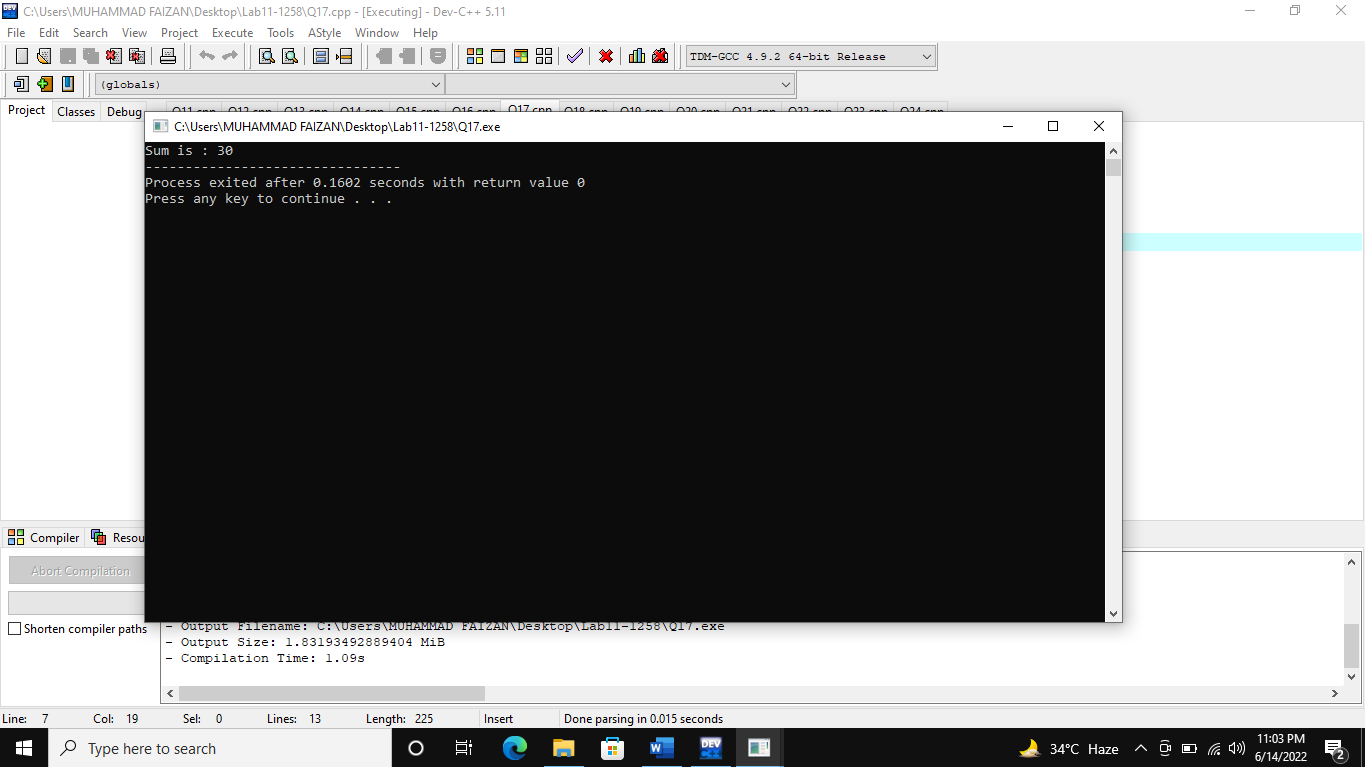
\*ptr3= 10;

cout<<"Sum is : "<<\*ptr1+\*ptr2+\*ptr3;

return 0;

}

**Output**



**(Q18)**

#include<iostream>

using namespace std;

int main(){

char \*ptr1,\*ptr2,\*ptr3;

ptr1= new char;

ptr2= new char;

ptr3= new char;

\*ptr1= 'A';

\*ptr2= 'B';

\*ptr3= 'C';

cout<<"Value of first ptr is : "<<\*ptr1<<endl;

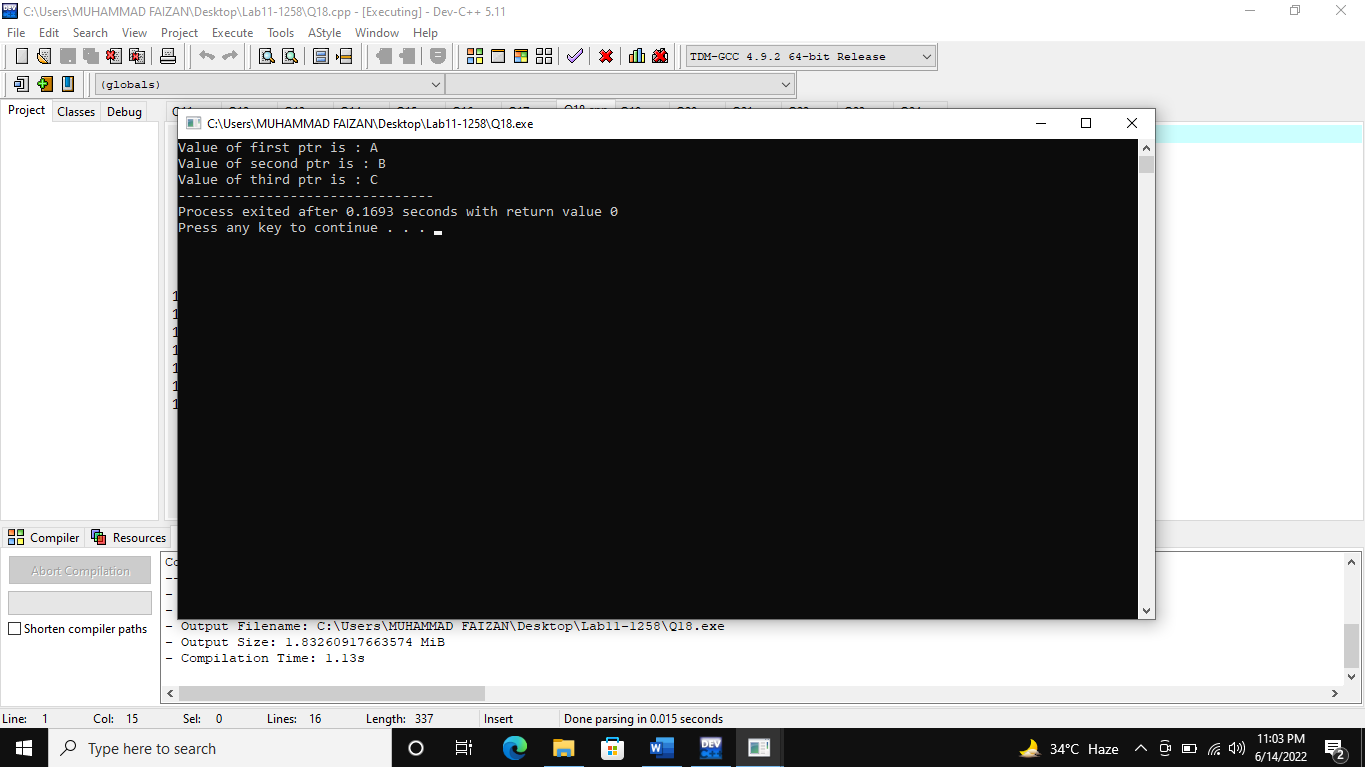
cout<<"Value of second ptr is : "<<\*ptr2<<endl;

cout<<"Value of third ptr is : "<<\*ptr3;

return 0;

}

**Output**

****

**(Q19)**

#include<iostream>

using namespace std;

void large (int \*ptr1, int \*ptr2,int \*ptr3,int \*ptr4,int \*ptr5 ){

int large = \*ptr1;

if(\*ptr2>large)

large=\*ptr2;

if(\*ptr3>large)

large=\*ptr3;

if(\*ptr4>large)

large=\*ptr4;

if(\*ptr5>large)

large=\*ptr5;

cout<<"Largest number is : "<<large;

}

int main(){

int \*ptr1,\*ptr2,\*ptr3,\*ptr4,\*ptr5;

ptr1= new int;

ptr2= new int;

ptr3= new int;

ptr4= new int;

ptr5= new int;

cout<<"Enter values of five pointers : ";

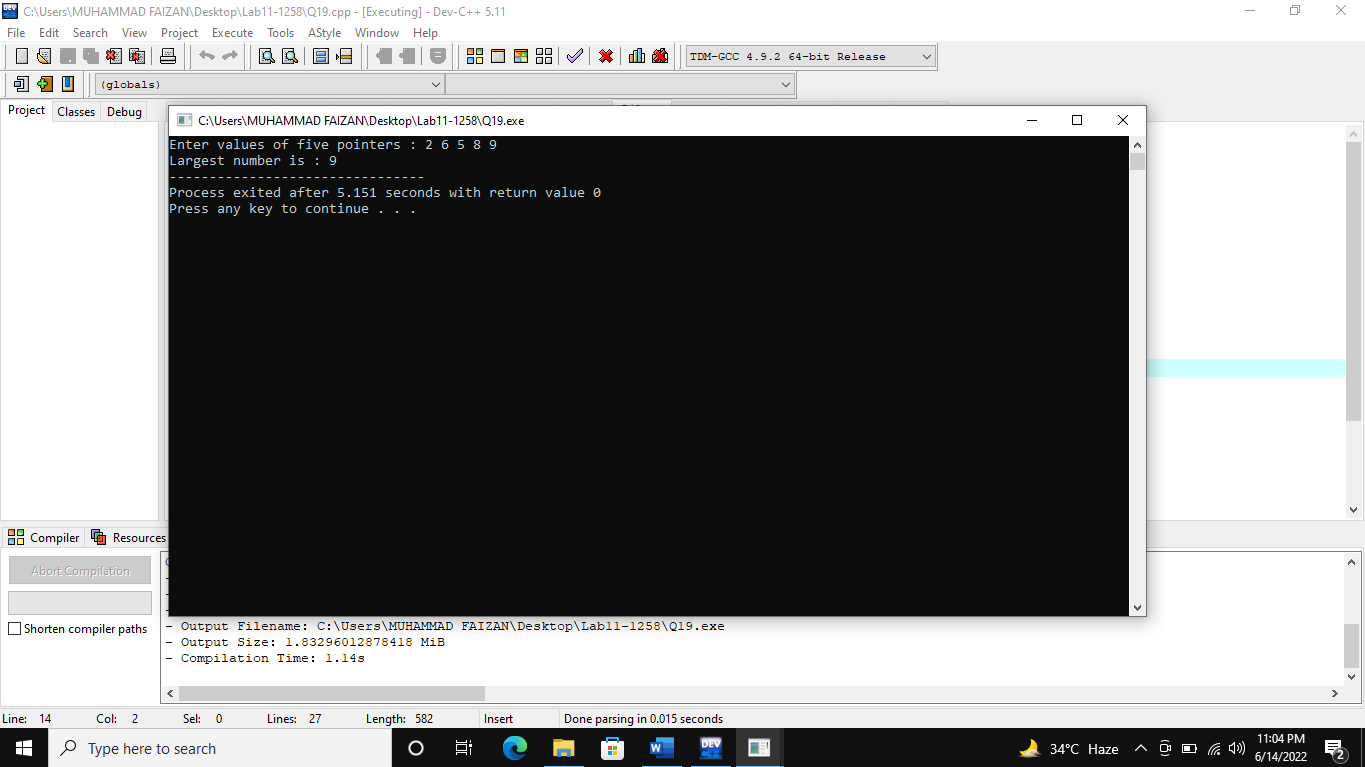
cin>>\*ptr1>>\*ptr2>>\*ptr3>>\*ptr4>>\*ptr5;

large(ptr1,ptr2,ptr3,ptr4,ptr5);

return 0;

}

**Output**



**(Q20)**

#include<iostream>

using namespace std;

void input(int \*ptr){

cout<<"Enter 10 elements of array : ";

for(int i=0; i<10; i++,ptr++){

cin>>\*ptr;

}

}

void output(int \*ptr){

cout<<"10 elements of array are : ";

for(int i=0; i<10; i++,ptr++){

cout<<\*ptr<<" ";

}

}

int main(){

int \*array{new int[10]};

// array[10]=new int;

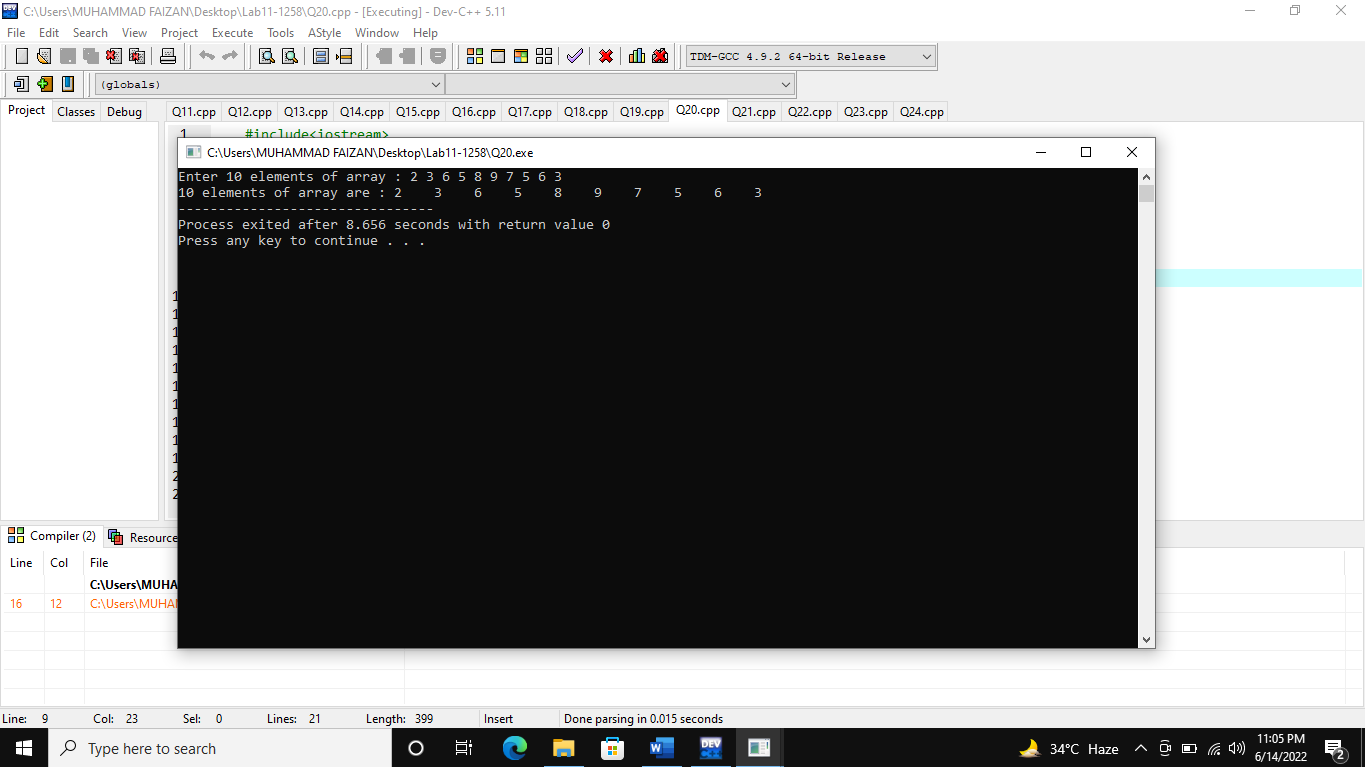
input(array);

output(array);

return 0;

}

**Output**

****

**(Q21)**

#include<iostream>

using namespace std;

int main(){

int \*\*ptr1, \*ptr, var=10;

ptr=&var;

\*ptr=\*ptr+50;

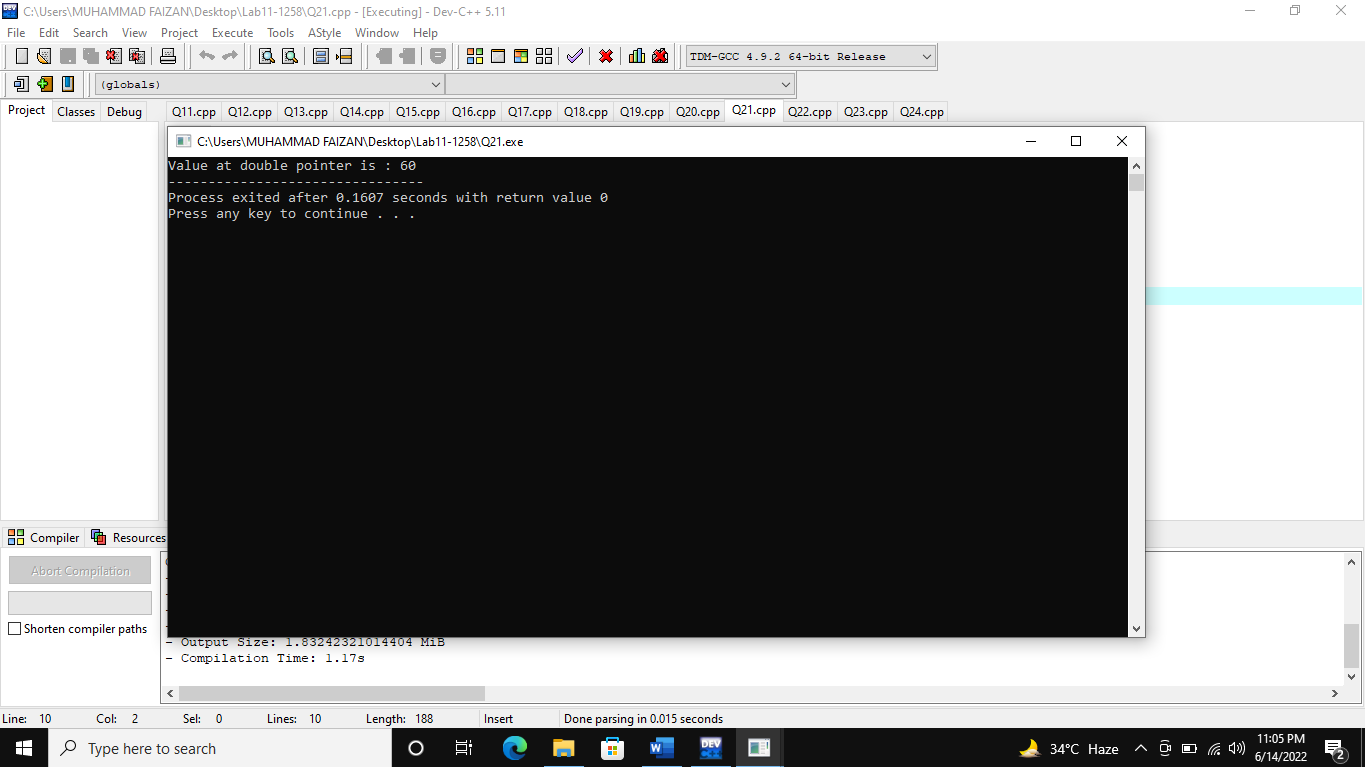
ptr1=&ptr;

cout<<"Value at double pointer is : "<<\*\*ptr1;

return 0;

}

**Output**



**(Q22)**

#include<iostream>

using namespace std;

int main()

{

char str[6] = "Hello";

char \*ptr;

int i;

ptr = str;

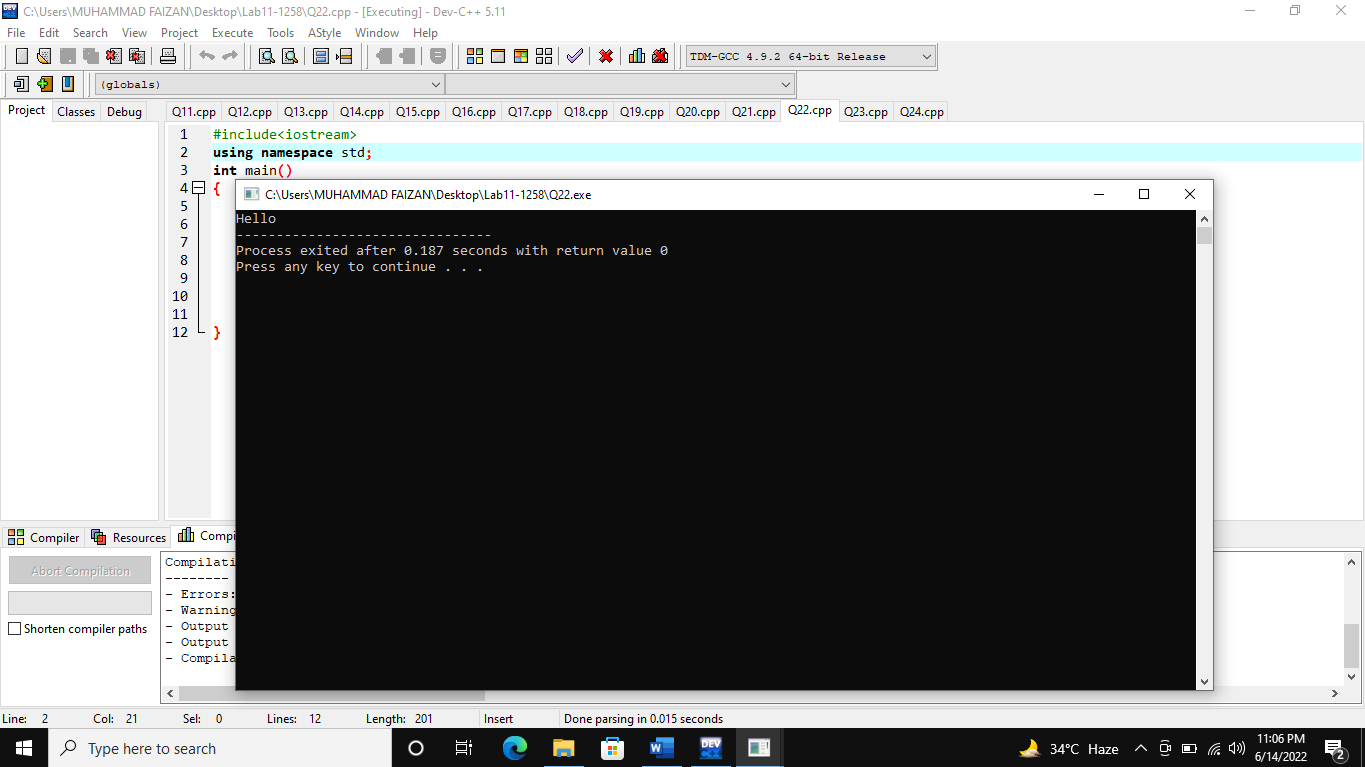
for(i = 0; i<6; i++,ptr++)

cout<<\*ptr;

return 0;

}

**Output**



**(Q23)**

#include<iostream>

using namespace std;

int main (){

char \*Cptr1,\*Cptr2;

char arr[20];

Cptr1=arr;

cout<<"Enter the character array: ";

gets(Cptr1);

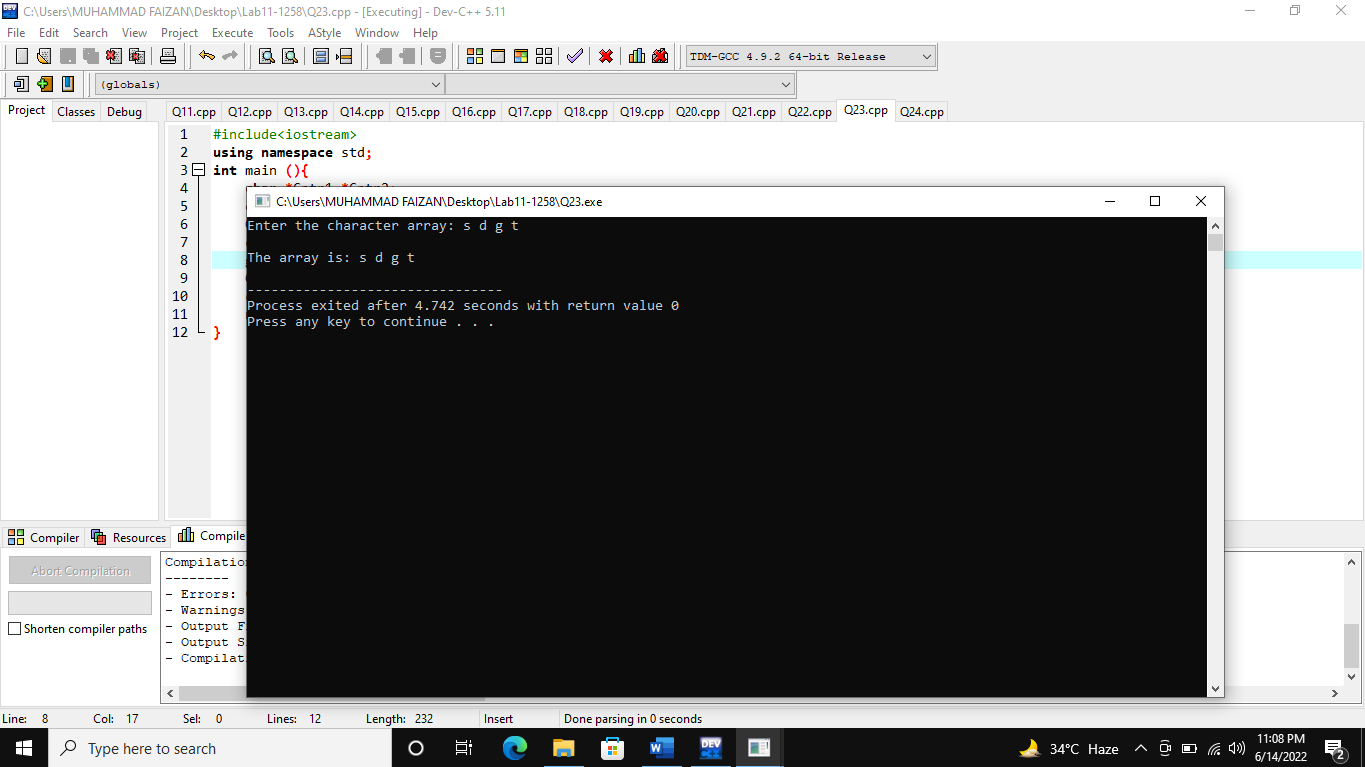
Cptr2=Cptr1;

cout<<"\nThe array is: "<<Cptr2<<endl;

return 0;

}

**Output**



**(Q24)**

#include<iostream>

using namespace std;

int main (){

char \*Cptr1,\*Cptr2;

char arr[20];

Cptr1=arr;

cout<<"Enter the array: ";

gets(Cptr1);

for(int i=0;i<5;i++){

Cptr2=Cptr1;

cout<<\*Cptr2;

Cptr1++;

Cptr2++;

}

return 0;

}

**Output**

