Assignment 01



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| Section: | A |

Department of Computer Science

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**Program 1**

#include <iostream>

using namespace std;

float PI = 3.14;

int main() {

float radius;

cout << "Enter radius:";

cin >> radius;

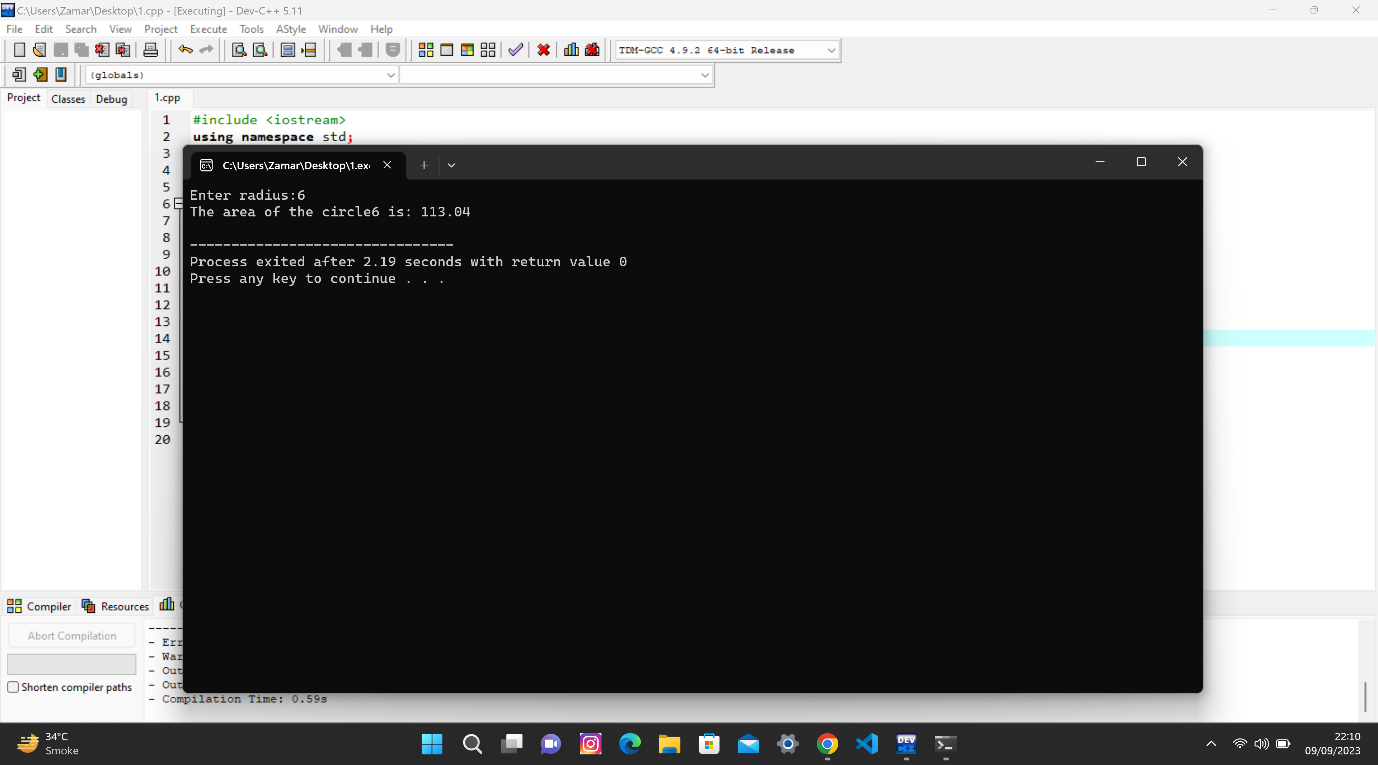
float\* ptr = &radius;

float area = PI \* (\*ptr) \* (\*ptr);

cout << "The area of the circle" << radius << " is: " << area << endl;

return 0;

}



**Program 2**

#include <iostream>

using namespace std;

int main() {

float len, hei;

cout << "Enter the length:";

cin >> len;

cout << "Enter the height:";

cin >> hei;

float\* ptrl = &len;

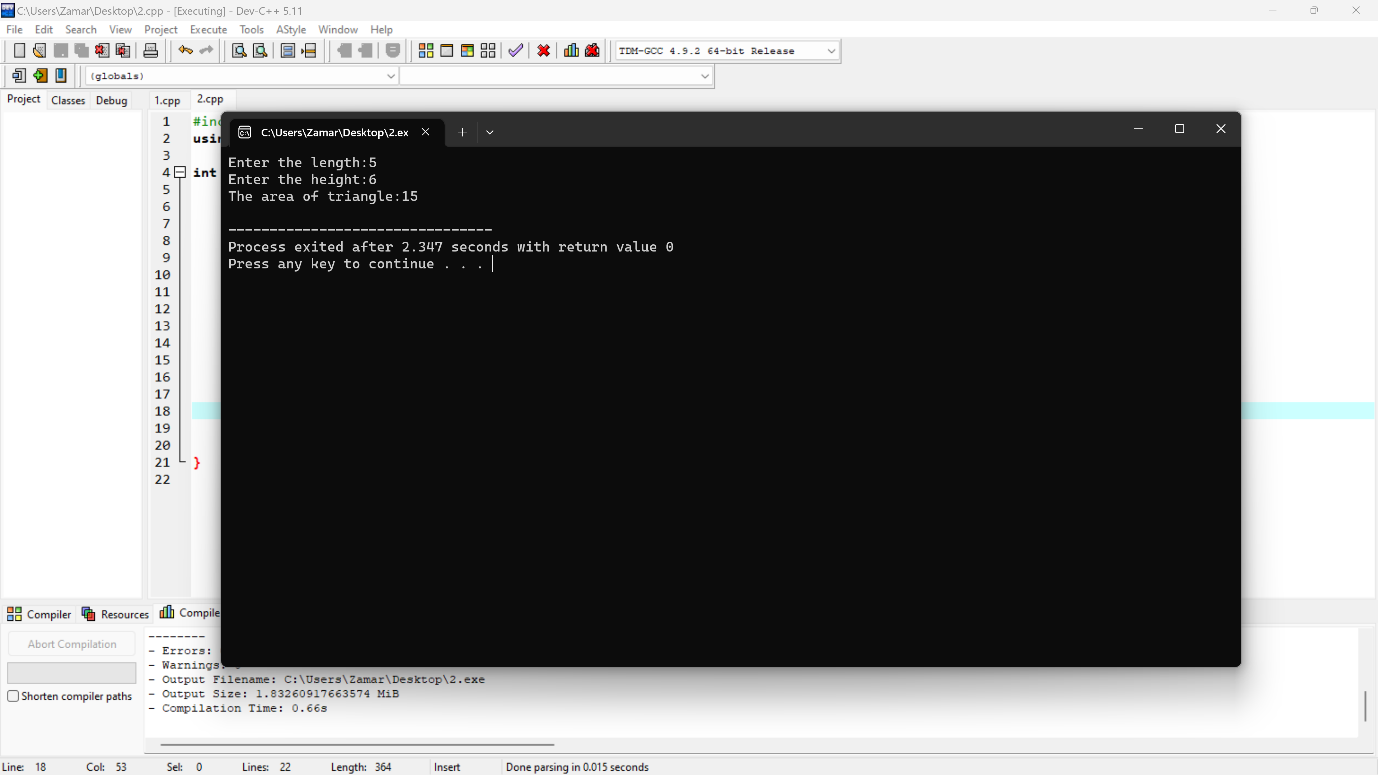
float\* ptrh = &hei;

double area = 0.5 \* (\*ptrl) \* (\*ptrh);

cout << "The area of triangle:" << area << endl;

return 0;

}



**Program 3**

#include <iostream>

using namespace std;

int main() {

float len;

cout << "Enter the length:";

cin >> len;

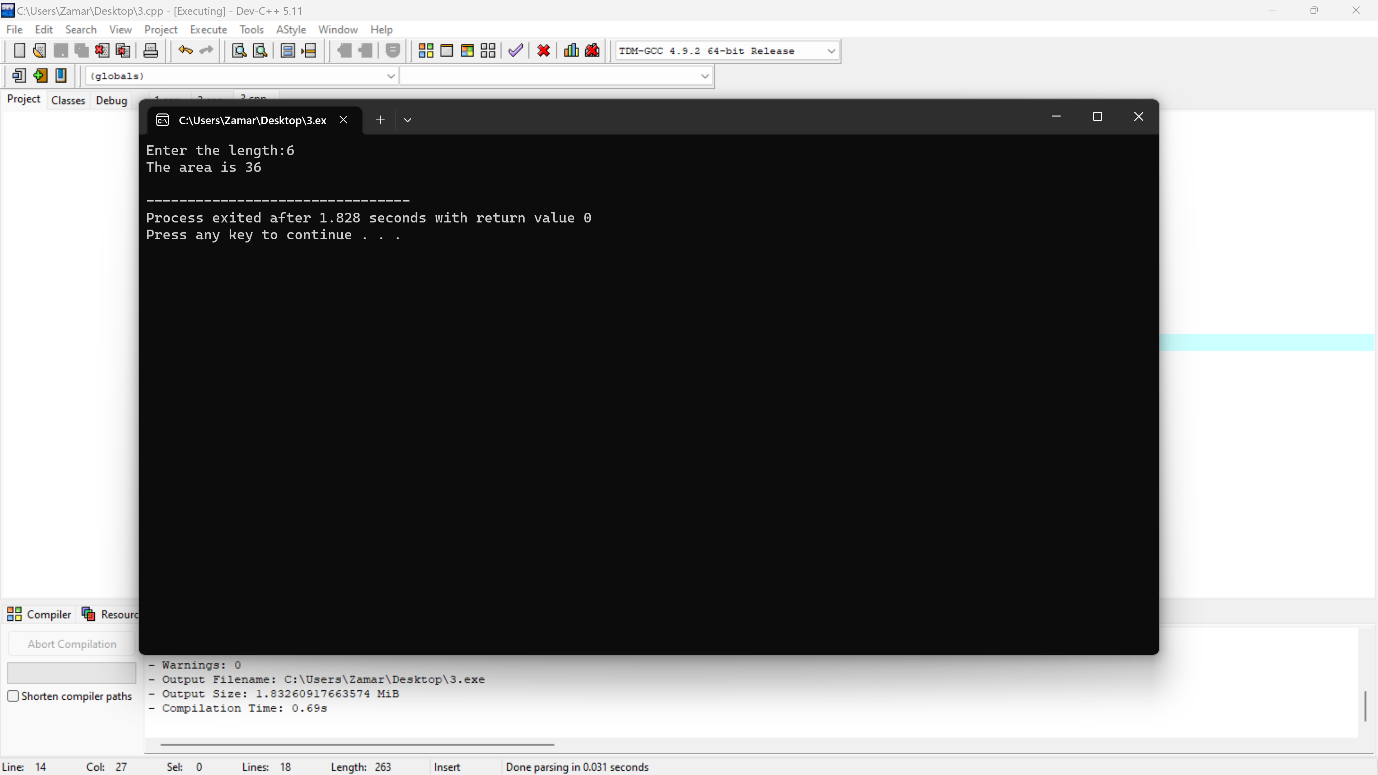
float\* ptrl = &len;

double area = (\*ptrl) \* (\*ptrl);

cout << "The area is "<< area << endl;

return 0;

}



**Program 4**

#include <iostream>

using namespace std;

int main() {

int n1, n2;

cout << "Enter the first number:";

cin >> n1;

cout << "Enter the second number:";

cin >> n2;

int\* ptrn1 = &n1;

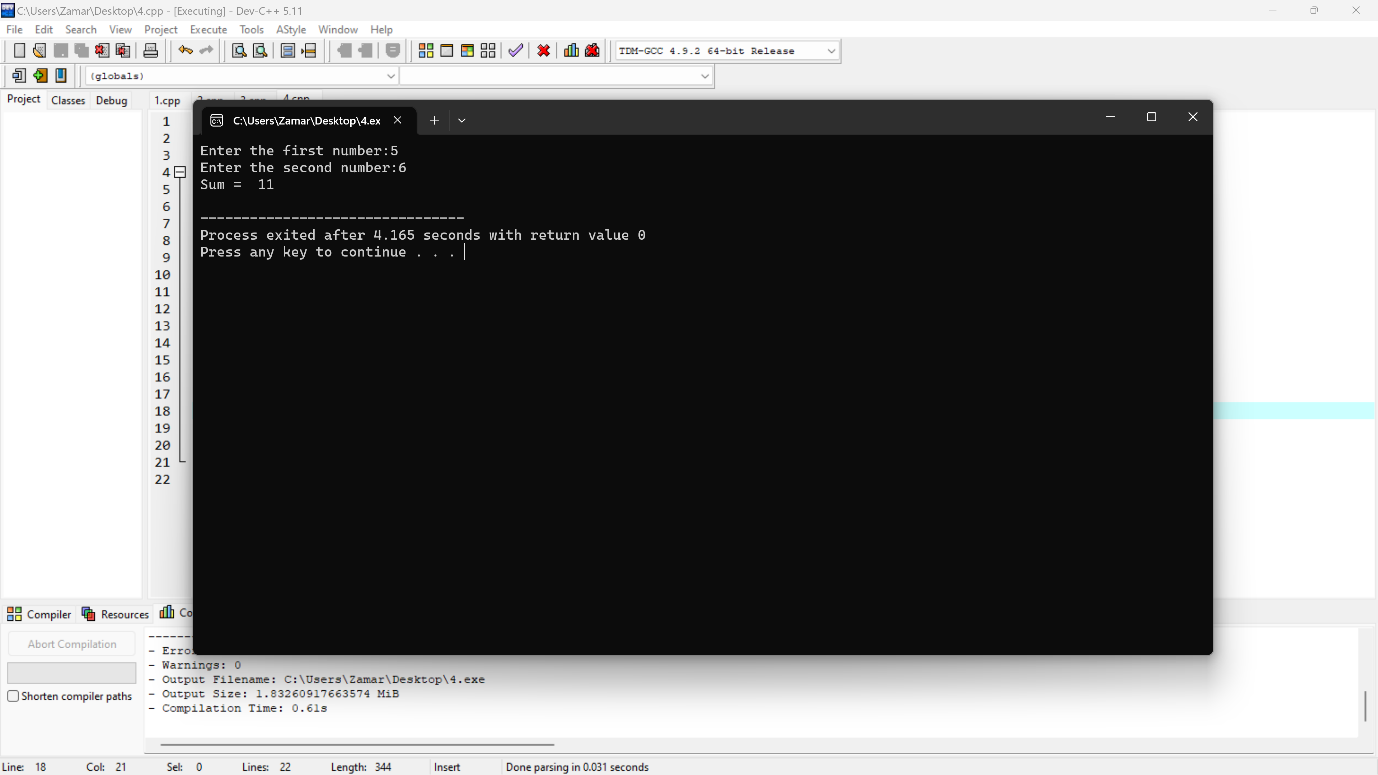
int\* ptrn2 = &n2;

int sum = (\*ptrn1) + (\*ptrn2);

cout << "Sum = " << sum << endl;

return 0;

}



**Program 5**

#include <iostream>

using namespace std;

int main() {

float n1, n2, n3;

cout << "Enter the first number:";

cin >> n1;

cout << "Enter the second number:";

cin >> n2;

cout << "Enter the third number:";

cin >> n3;

float\* ptrn1 = &n1;

float\* ptrn2 = &n2;

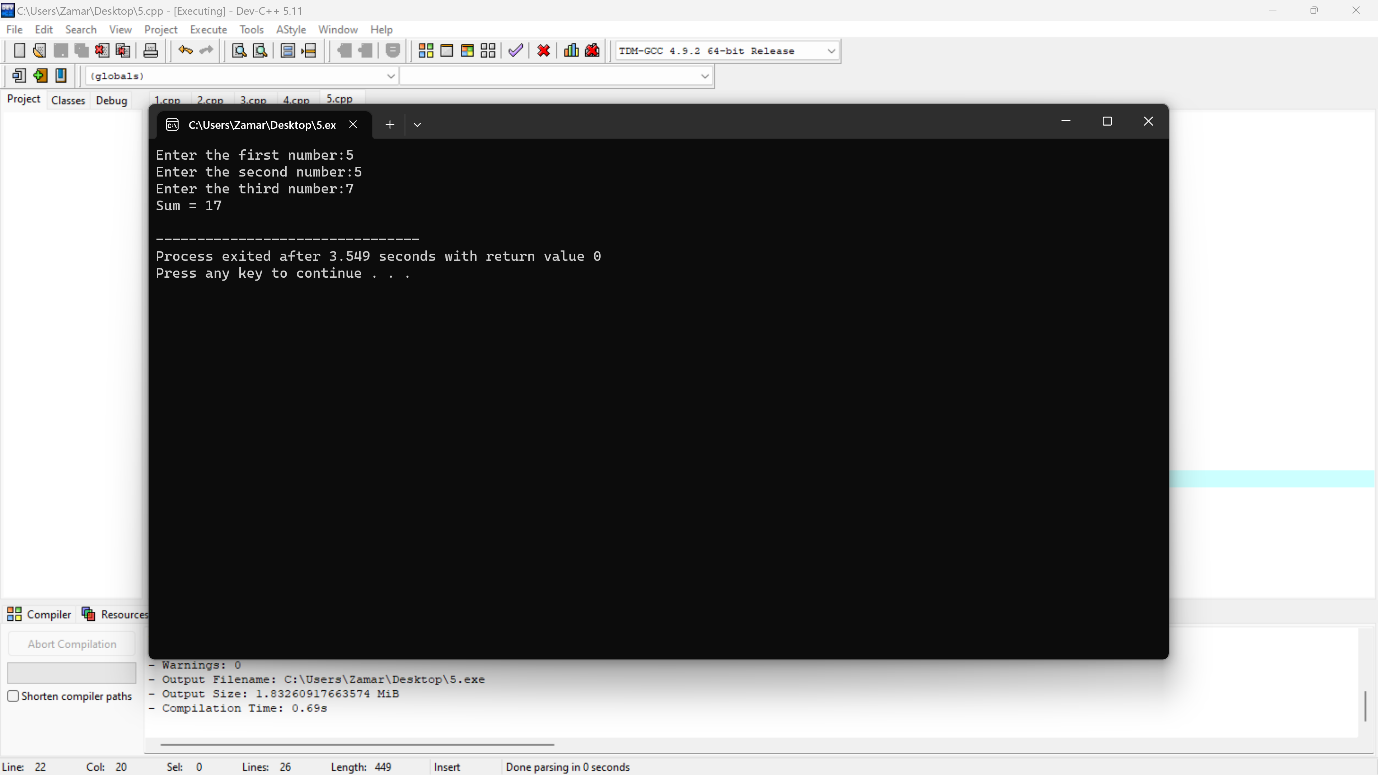
float\* ptrn3 = &n3;

float sum = (\*ptrn1) + (\*ptrn2) + (\*ptrn3);

cout << "Sum = "<< sum << endl;

return 0;

}



**Program 6**

#include <iostream>

using namespace std;

int main() {

int n1, n2;

cout << "Enter the first number: ";

cin >> n1;

cout << "Enter the second number: ";

cin >> n2;

int\* ptr1 = &n1;

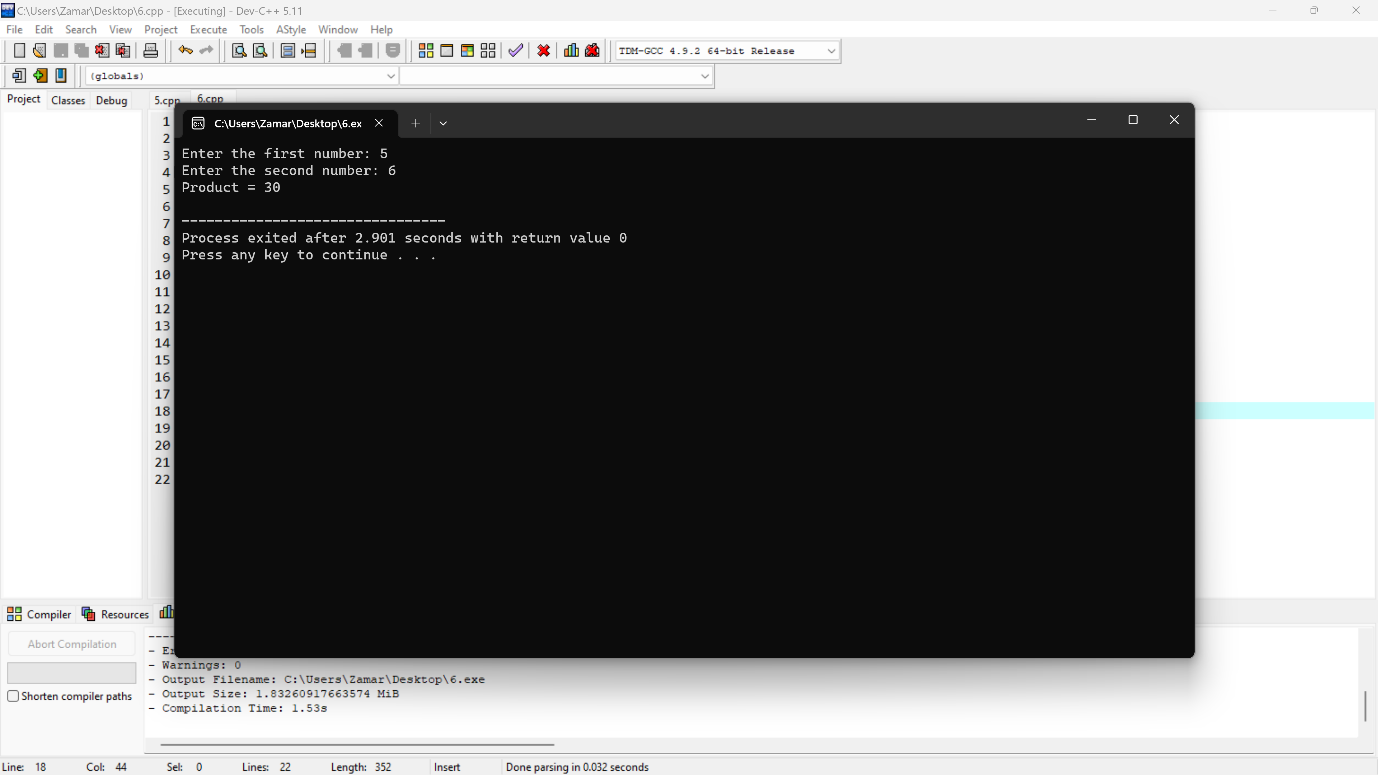
int\* ptr2 = &n2;

int product = (\*ptr1) \* (\*ptr2);

cout << "Product = "<< product << endl;

return 0;

}



**Program 7**

#include <iostream>

using namespace std;

int main() {

float n1, n2, n3;

cout << "Enter the first number:";

cin >> n1;

cout << "Enter the second number:";

cin >> n2;

cout << "Enter the third number:";

cin >> n3;

float\* ptr1 = &n1;

float\* ptr2 = &n2;

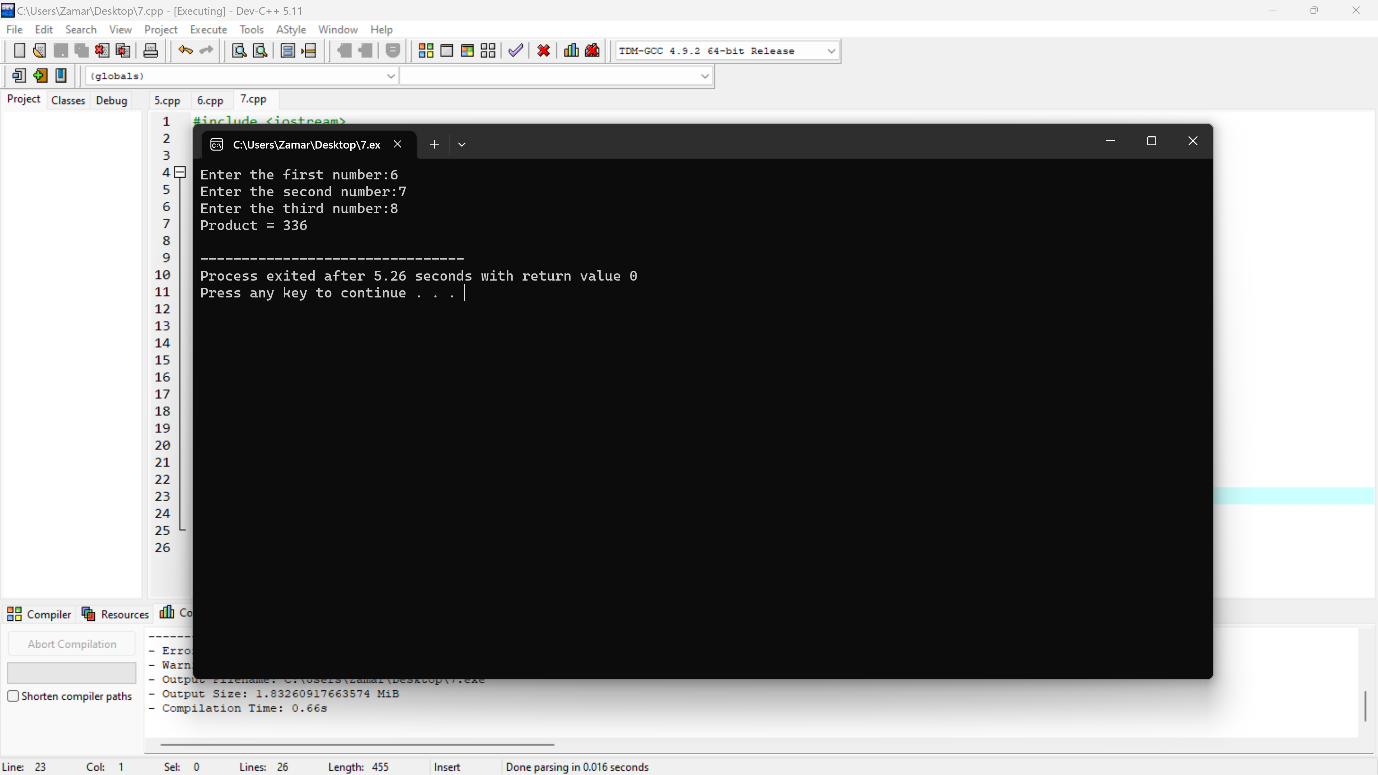
float\* ptr3 = &n3;

float product = (\*ptr1) \* (\*ptr2) \* (\*ptr3);

cout << "Product = "<< product << endl;

return 0;

}



**Program 8**

#include <iostream>

using namespace std;

int main() {

float n1, n2;

cout << "Enter first number:";

cin >> n1;

cout << "Enter second number:";

cin >> n2;

if (n2 == 0) {

cout << "Error: Division by zero is not allowed." << endl;

return 1;

}

float\* ptr1 = &n1;

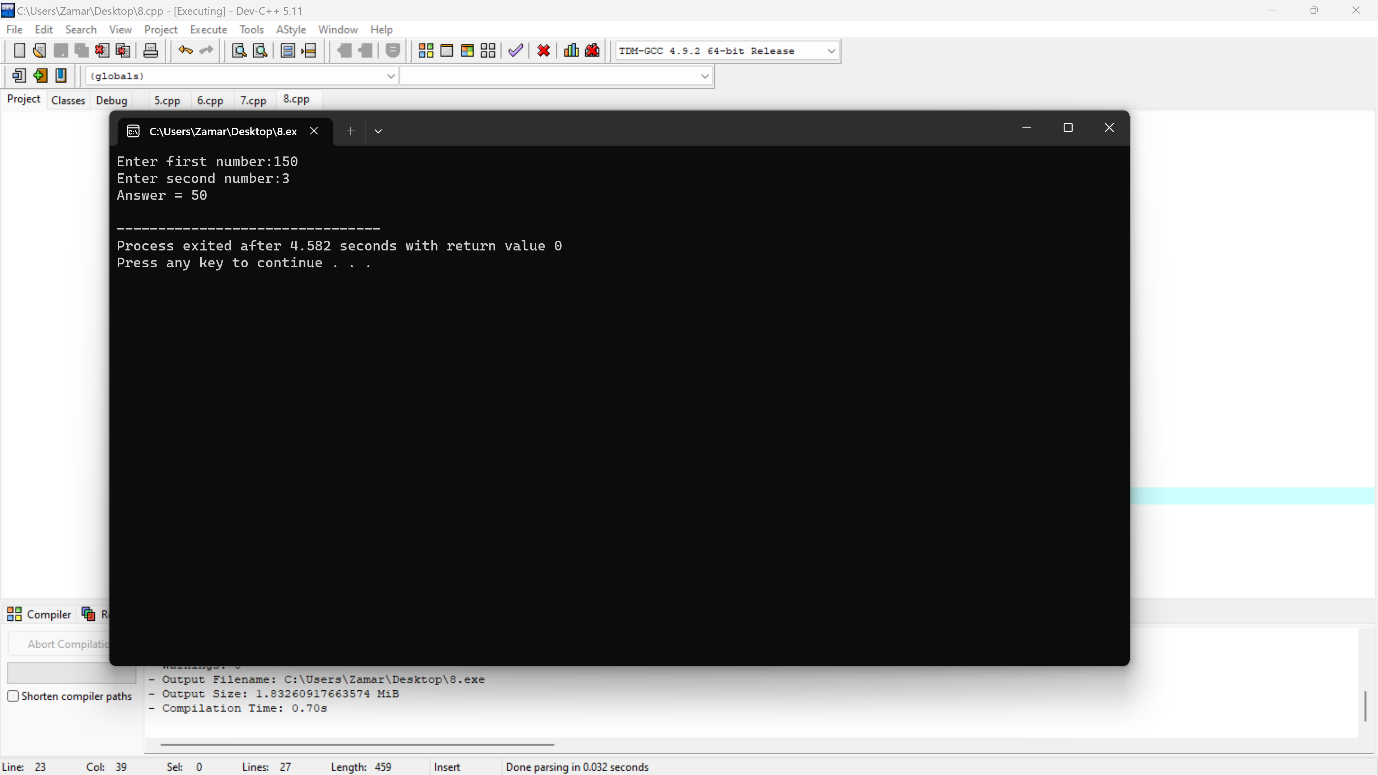
float\* ptr2 = &n2;

float ans = (\*ptr1) / (\*ptr2);

cout << "Answer = "<< ans << endl;

return 0;

}



**Program 9**

#include <iostream>

using namespace std;

int main() {

float n1, n2;

cout << "Enter the first number:";

cin >> n1;

cout << "Enter the second number:";

cin >> n2;

float\* ptr1 = &n1;

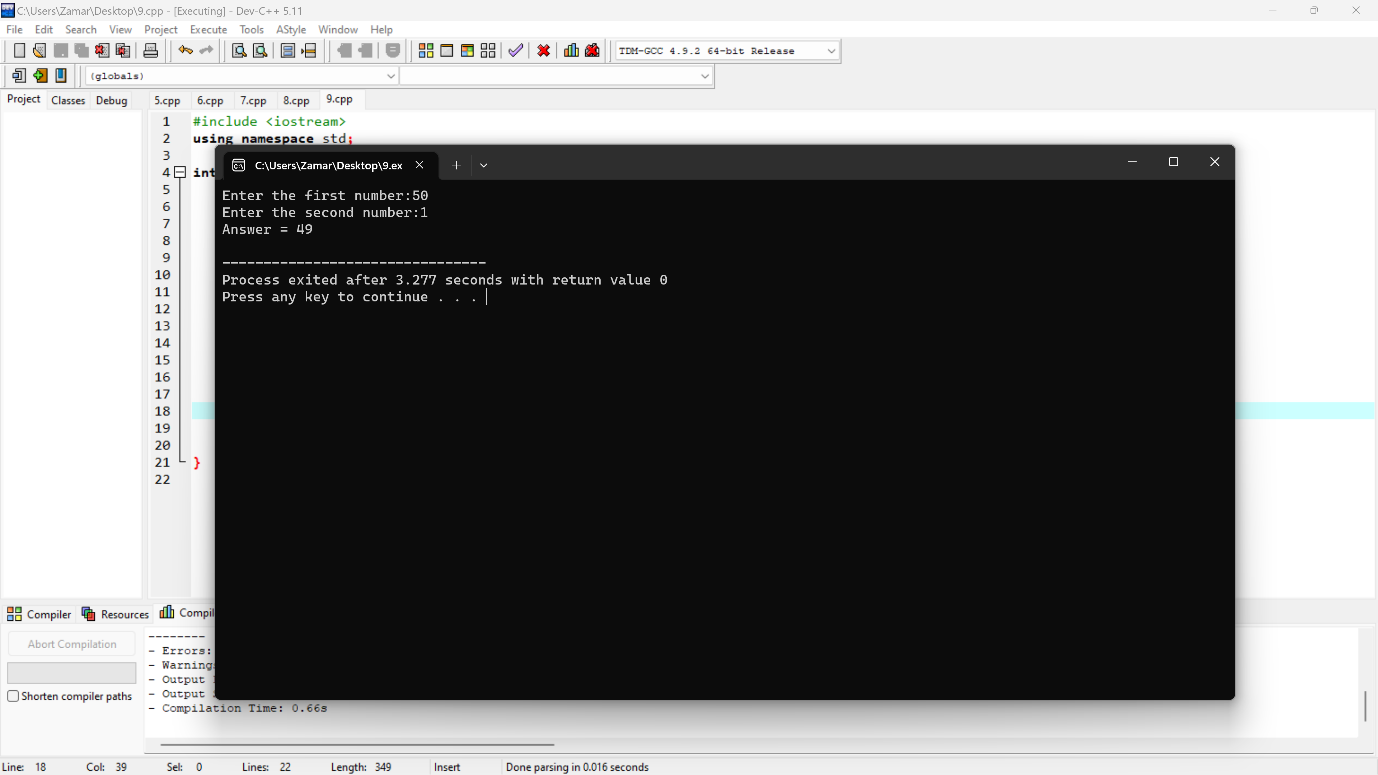
float\* ptr2 = &n2;

float ans = (\*ptr1) - (\*ptr2);

cout << "Answer = "<< ans << endl;

return 0;

}



**Program 10**

#include <iostream>

using namespace std;

int main() {

int arr[6] = {1, 5, 3, 7, 5, 8};

int \*ptr = arr;

int len = 0;

while (\*ptr != arr[6]) {

len++;

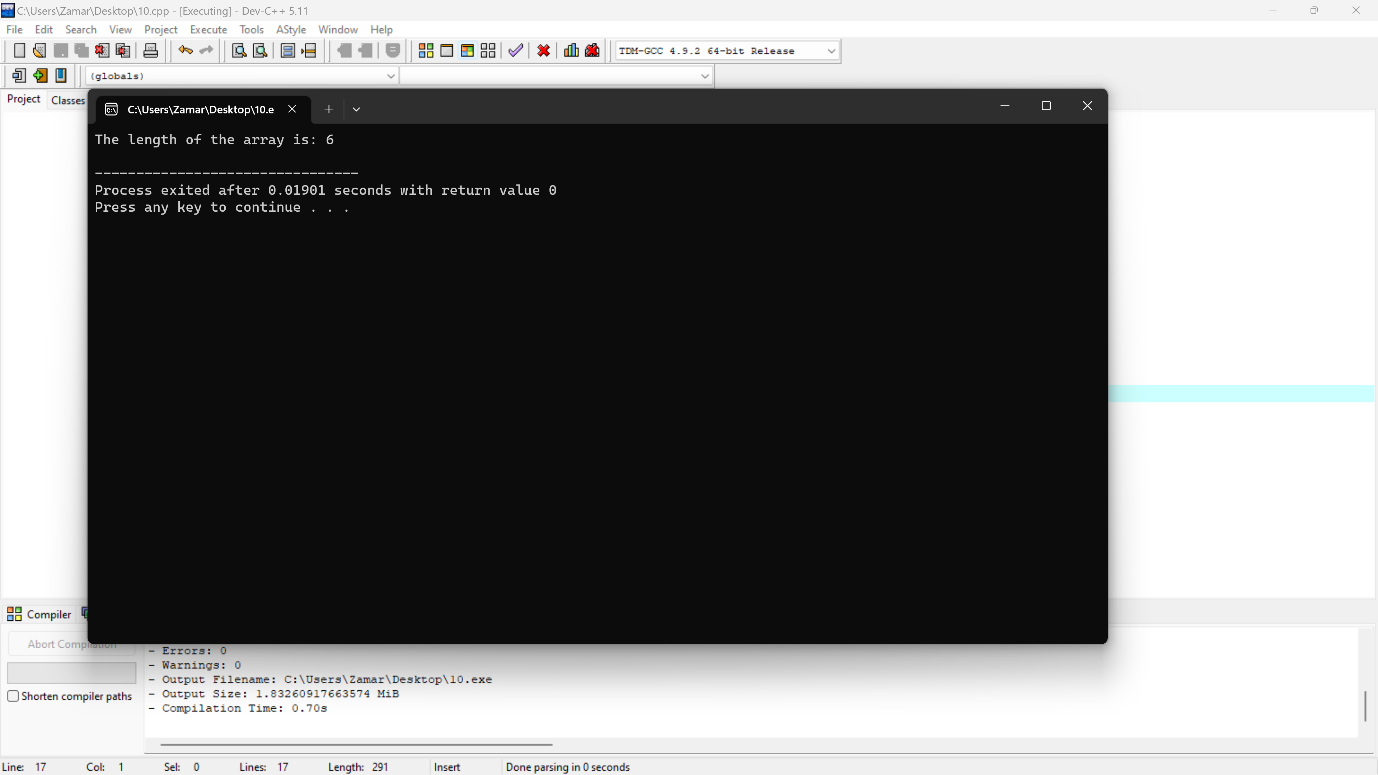
ptr++;

}

cout << "The length of the array is: " << len << endl;

return 0;

}



**Program 11**

#include <iostream>

using namespace std;

int main() {

int n;

cout << "Enter the number:";

cin >> n;

int\* ptr = &n;

int len = 0;

while (\*ptr != 0) {

len++;

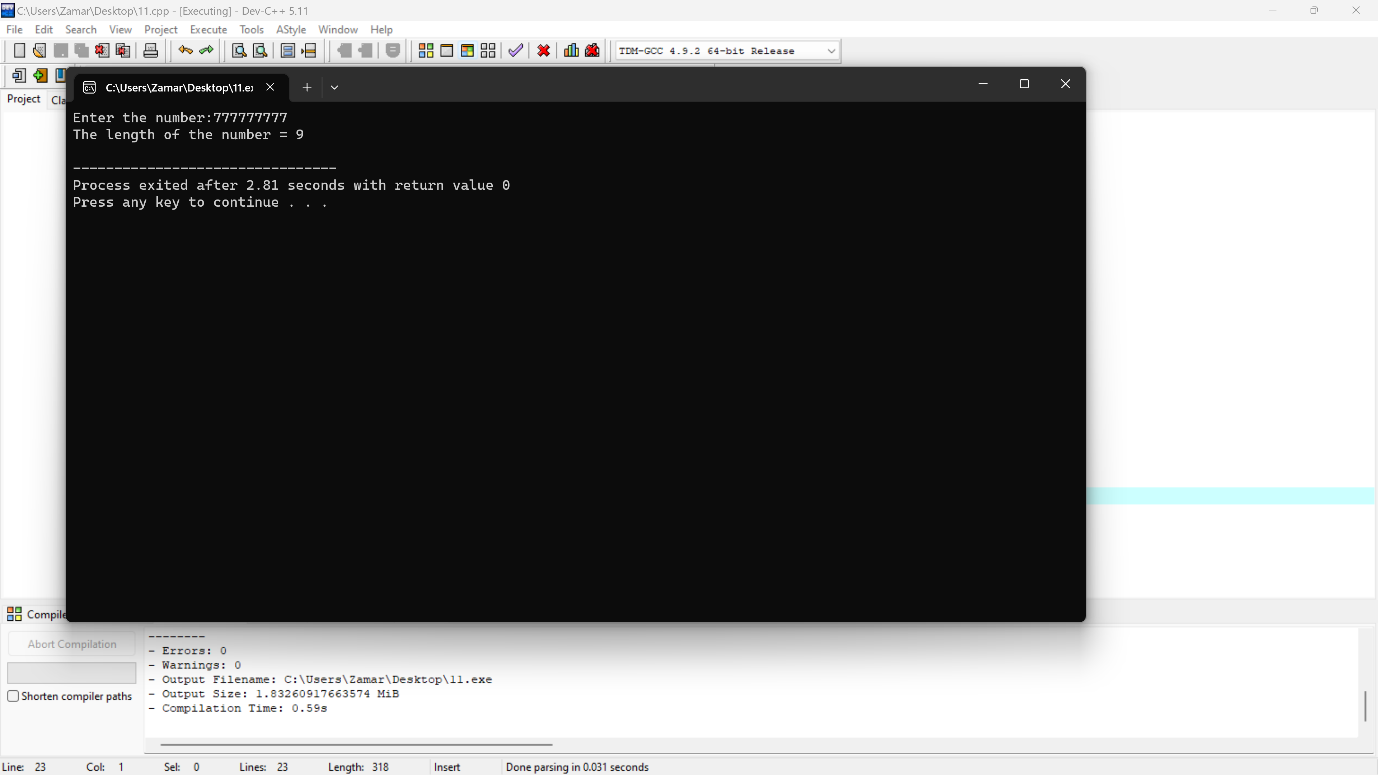
\*ptr /= 10;

}

cout << "The length of the number = "<< len << endl;

return 0;

}



**Program 12**

#include <iostream>

using namespace std;

int main() {

int n[100];

int \*ptr = n;

for (int i = 1; i <= 100; i++) {

\*ptr = i;

ptr++;

}

ptr = n;

for (int i = 0; i < 100; i++) {

cout << \*ptr << " ";

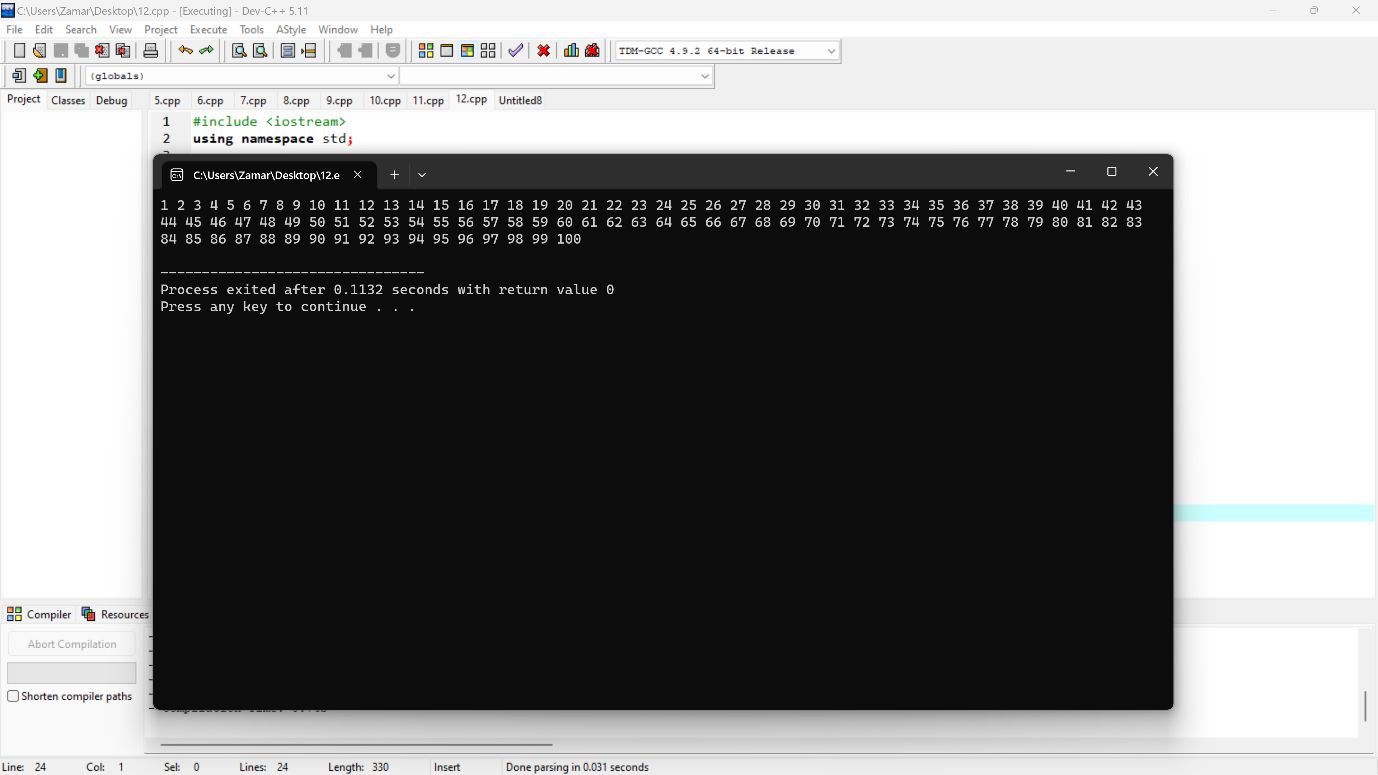
ptr++;

}

cout << endl;

return 0;

}



**Program 13**

#include <iostream>

using namespace std;

int main() {

int n;

cout << "Enter the number:";

cin >> n;

int \*ptr = &n;

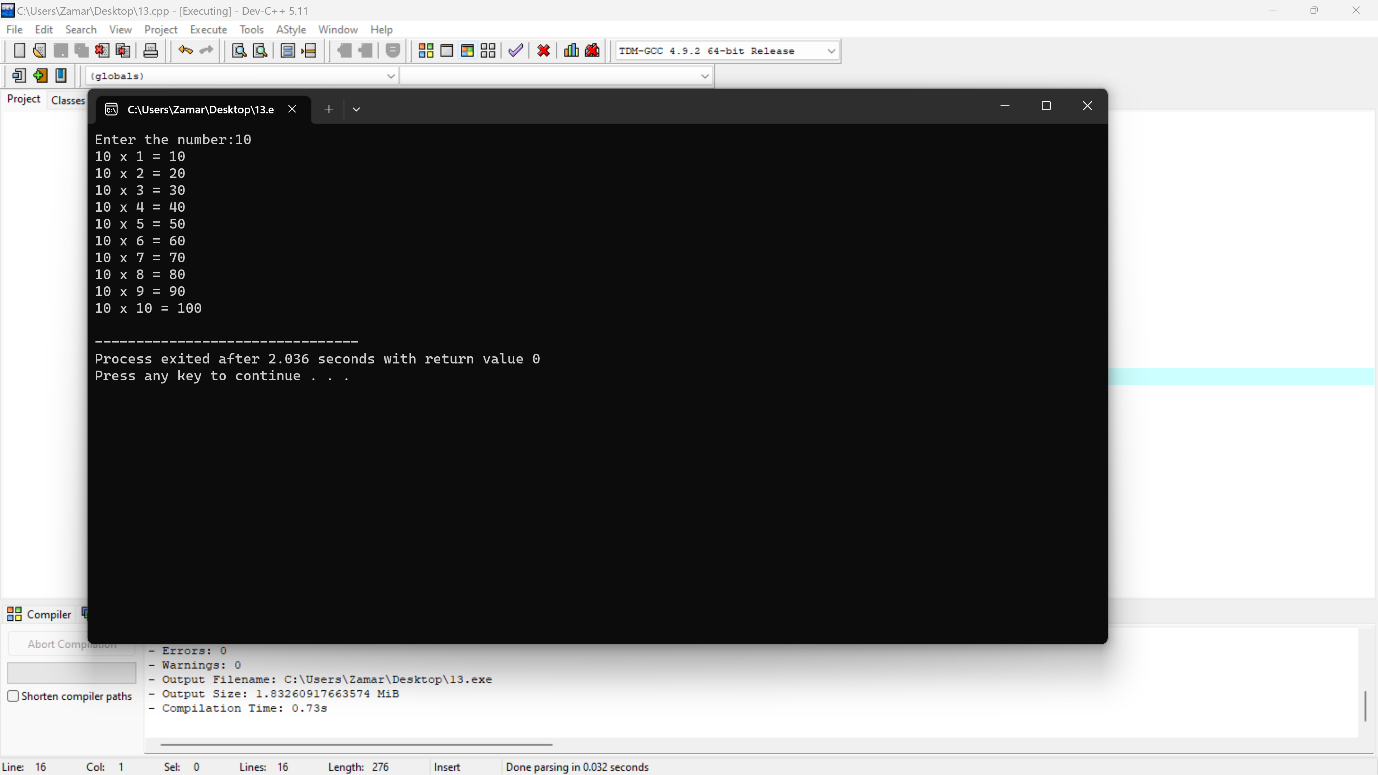
for (int i = 1; i <= 10; i++) {

cout << \*ptr << " x " << i << " = " << (\*ptr) \* i << endl;

}

return 0;

}



**Program 14**

#include <iostream>

using namespace std;

int main() {

int n, a = 0, b;

cout << "Enter a number: ";

cin >> n;

b = n;

while (n > 0) {

int res = n % 10;

a = (a \* 10) + res;

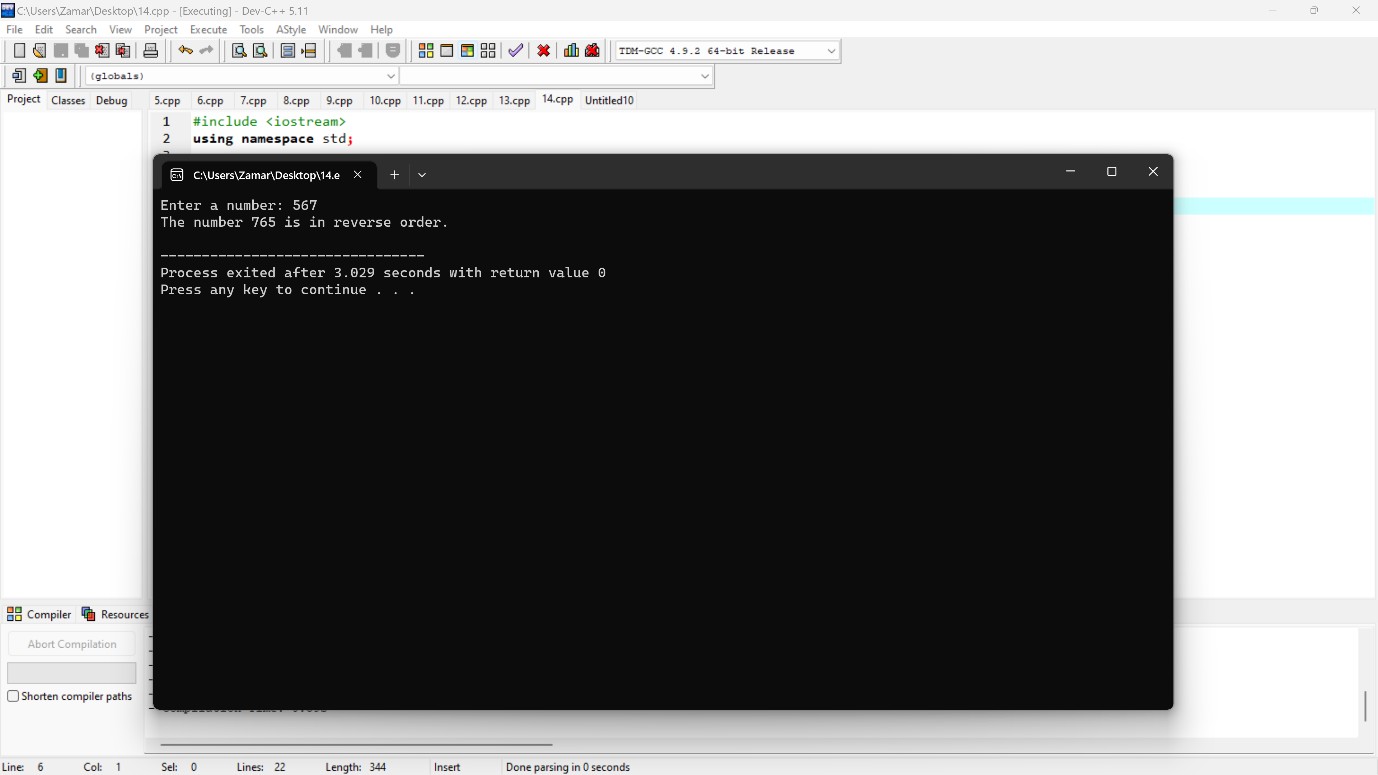
n /= 10;

}

cout << "The number " << a << " is in reverse order." << endl;

return 0;

}



**Program 15**

#include <iostream>

using namespace std;

int main() {

int len, wth;

cout << "Enter the length:";

cin >> len;

cout << "Enter the width:";

cin >> wth;

int\* ptrL = &len;

int\* ptrW = &wth;

int area = (\*ptrL) \* (\*ptrW);

cout << "The area of the rectangle = " << area << endl;

return 0;

}

