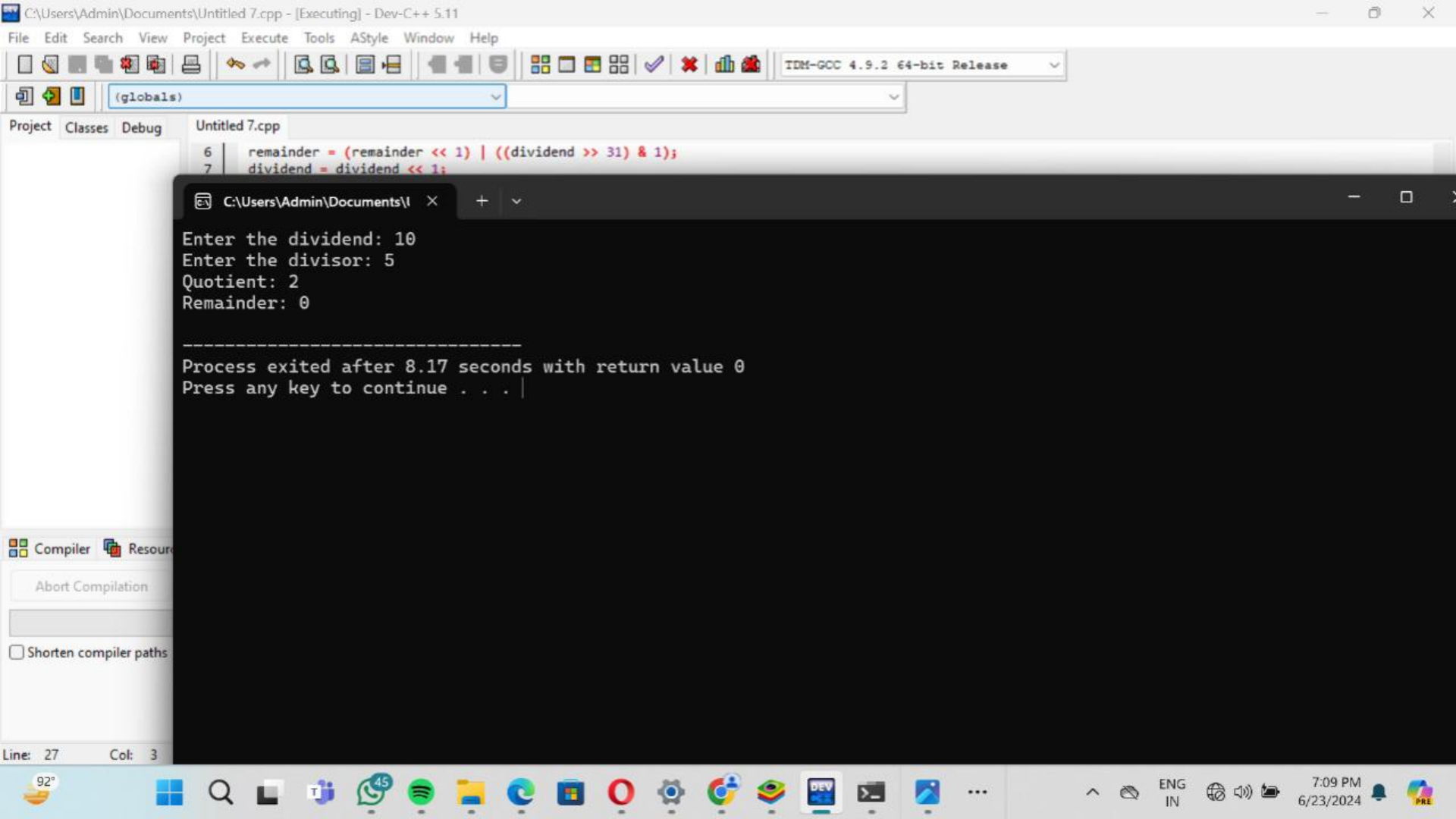
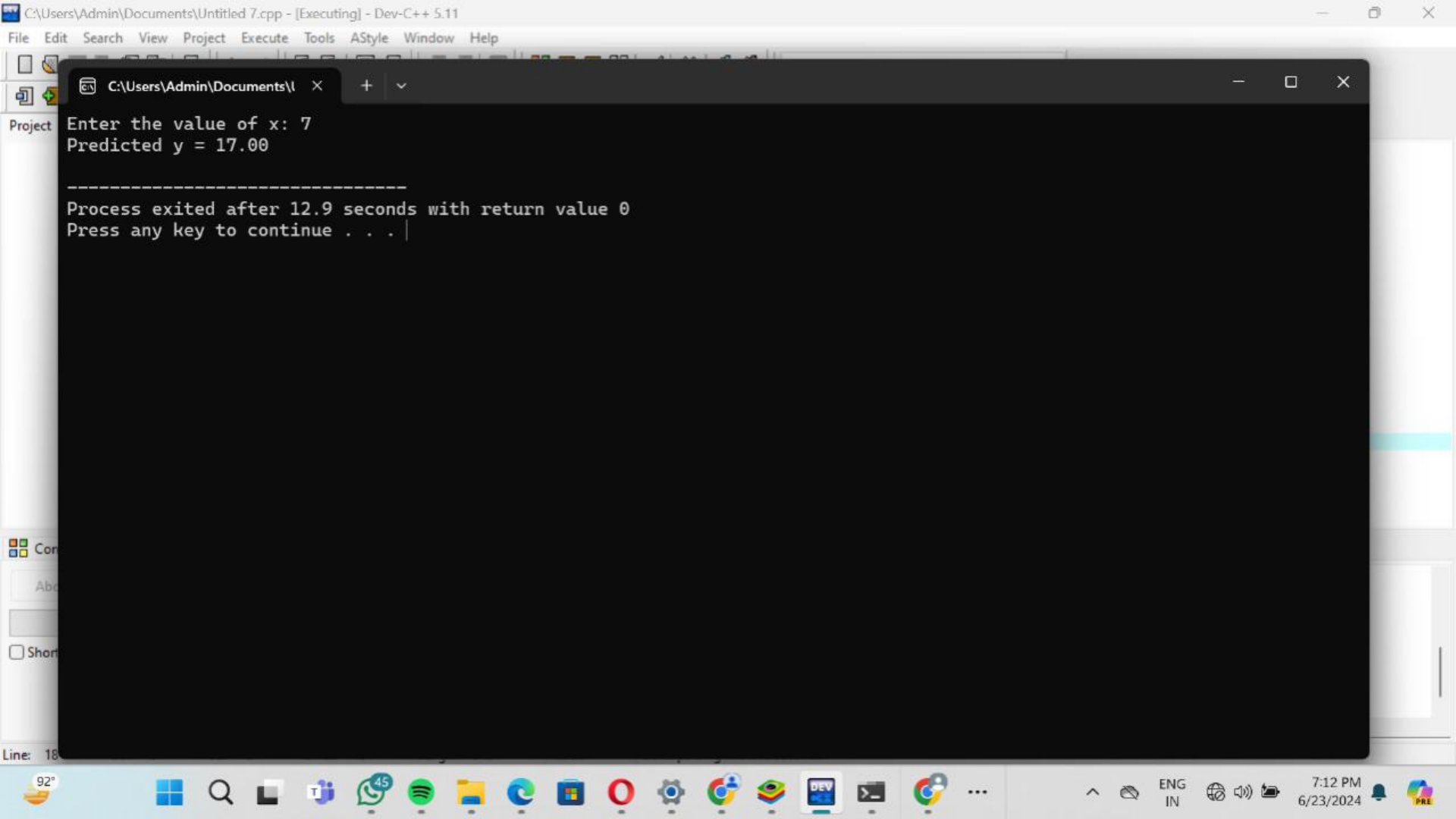
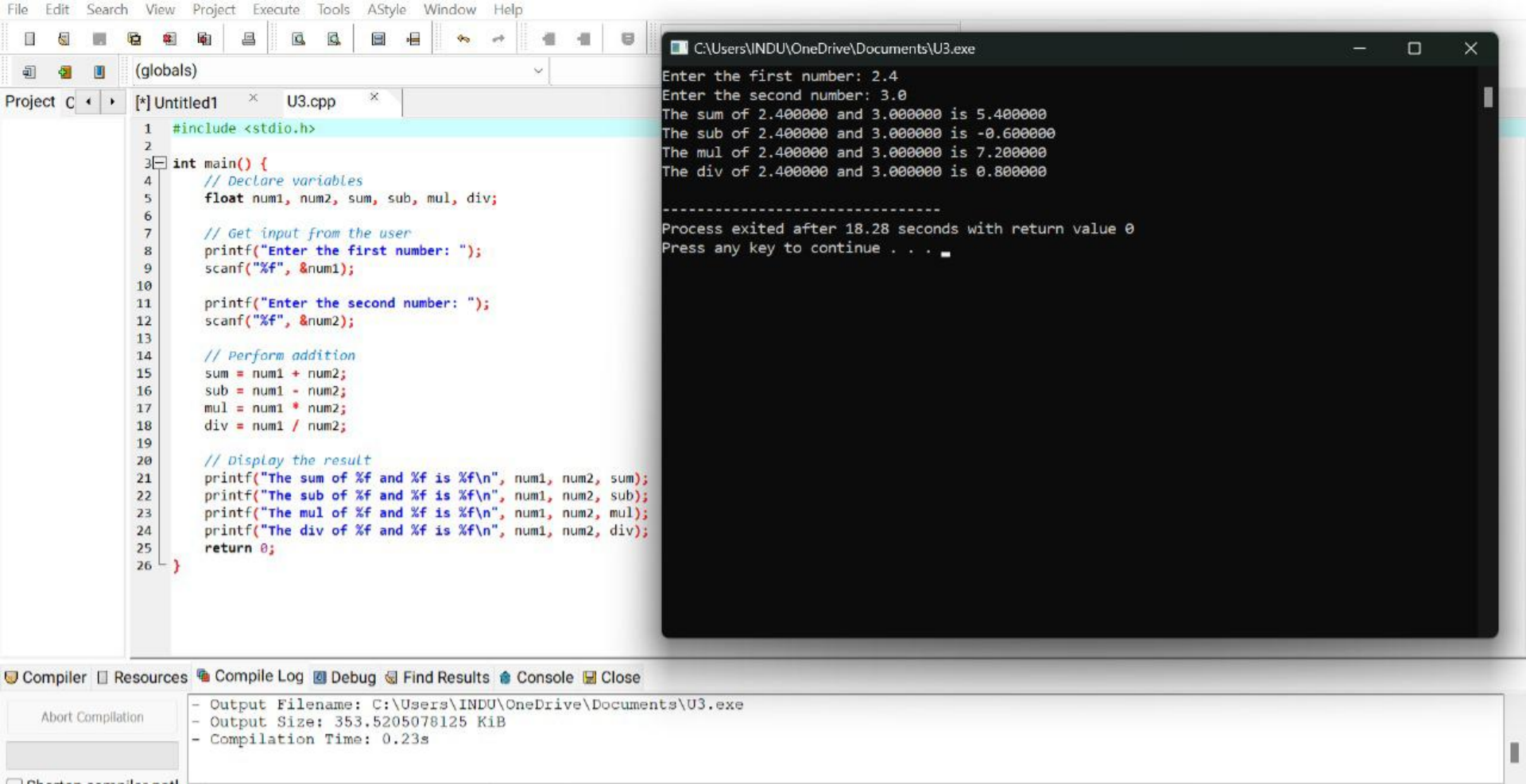
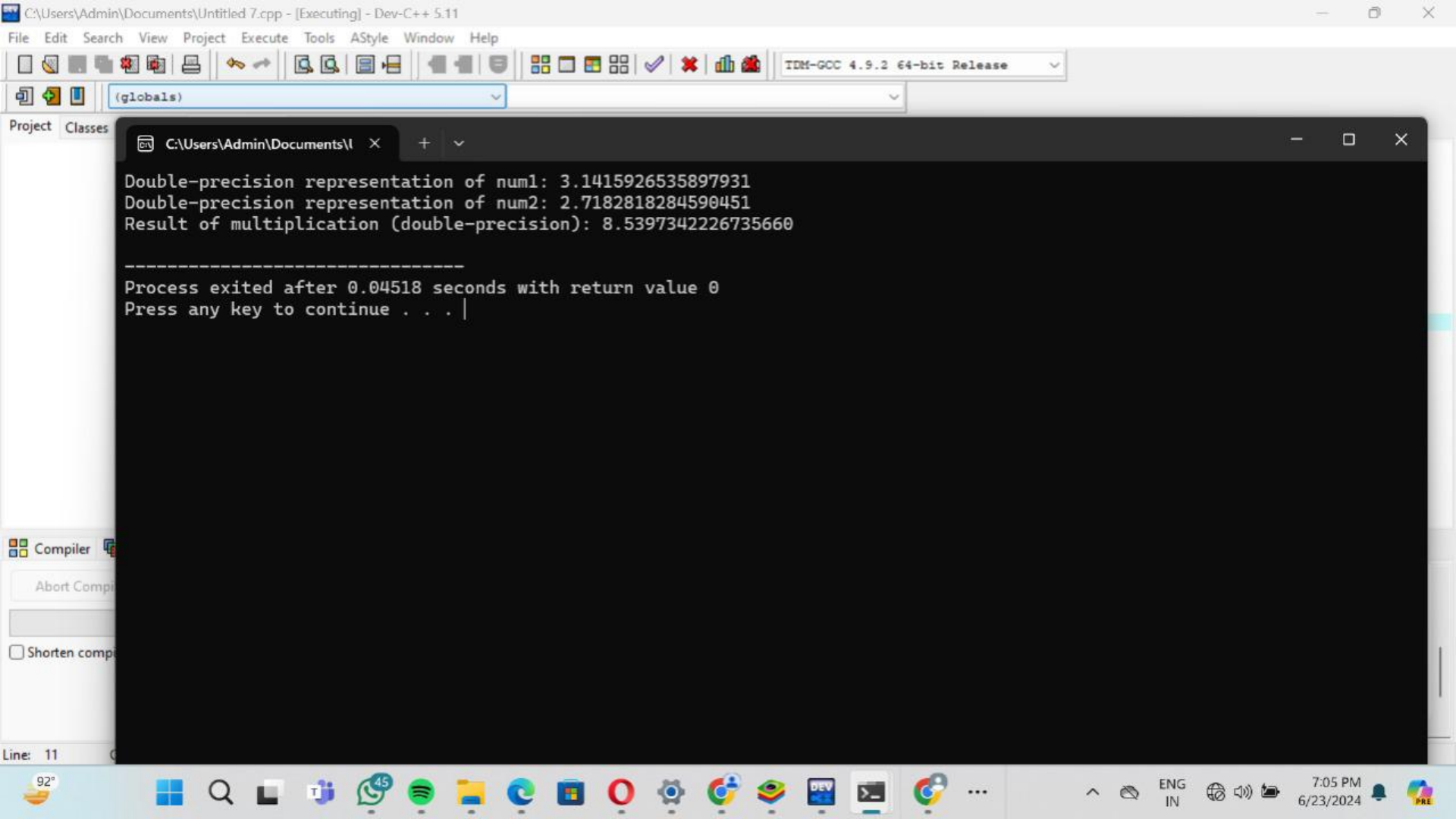

C:\Users\Admin\Documents\Untitled 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled 7.cpp
6 remainder = (remainder << 1) | ((dividend >> 31) & 1);
7 dividend = dividend << 1;
C:\Users\Admin\Documents\I
Enter the dividend: 10
Enter the divisor: 5
Quotient: 2
Remainder: 0
Process exited after 8.17 seconds with return value 0
Press any key to continue . . .
Compiler
Abort Compilation
Shorten compiler paths
Line: 27 Col: 3
ENG IN
7:09 PM 6/23/2024

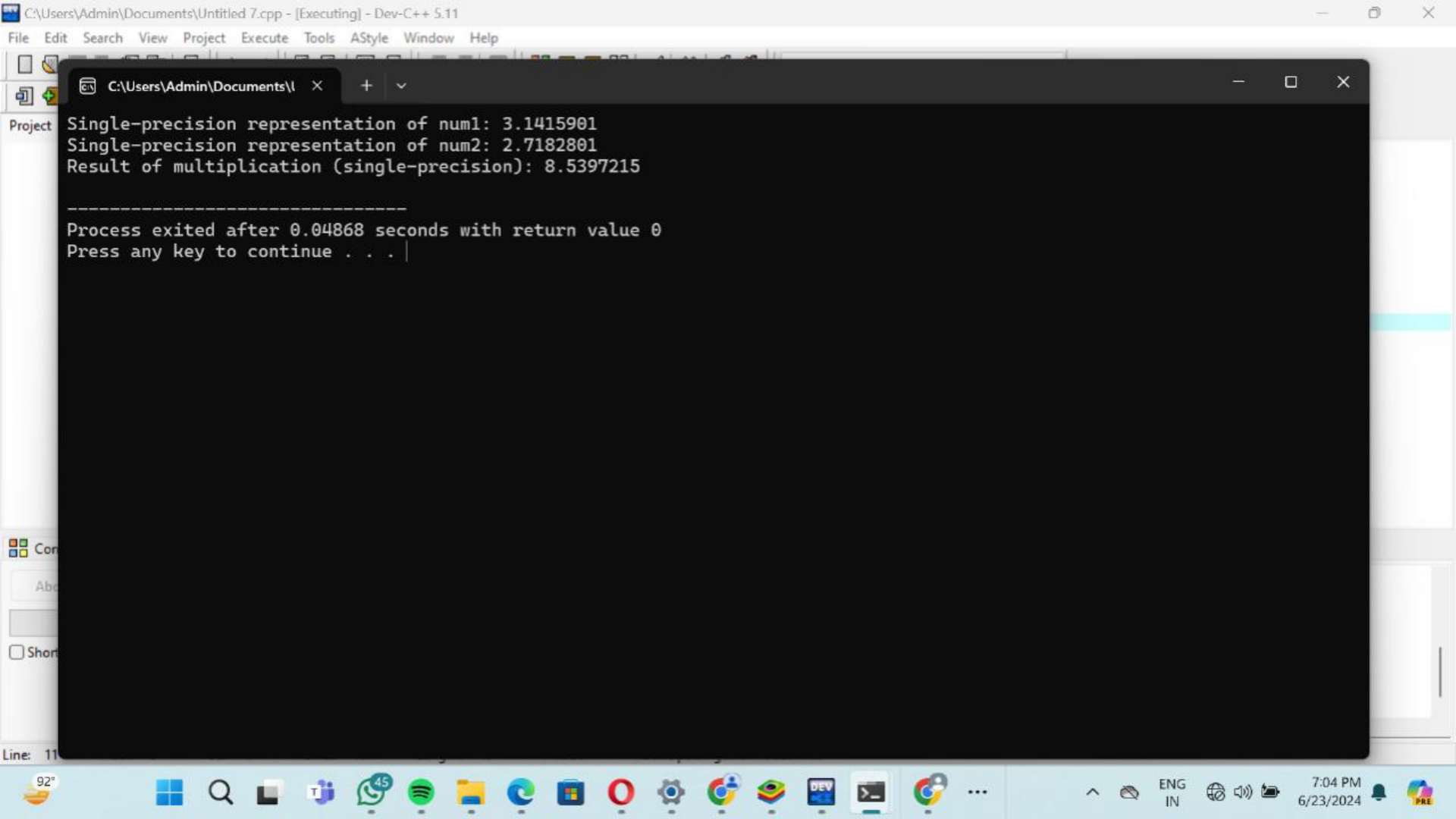

C:\Users\Admin\Documents\Untitled 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
C:\Users\Admin\Documents\I
Enter the value of x: 7
Predicted y = 17.00

Process exited after 12.9 seconds with return value 0
Press any key to continue . . .
Project
Line:
ENG
IN
7:12 PM
6/23/2024

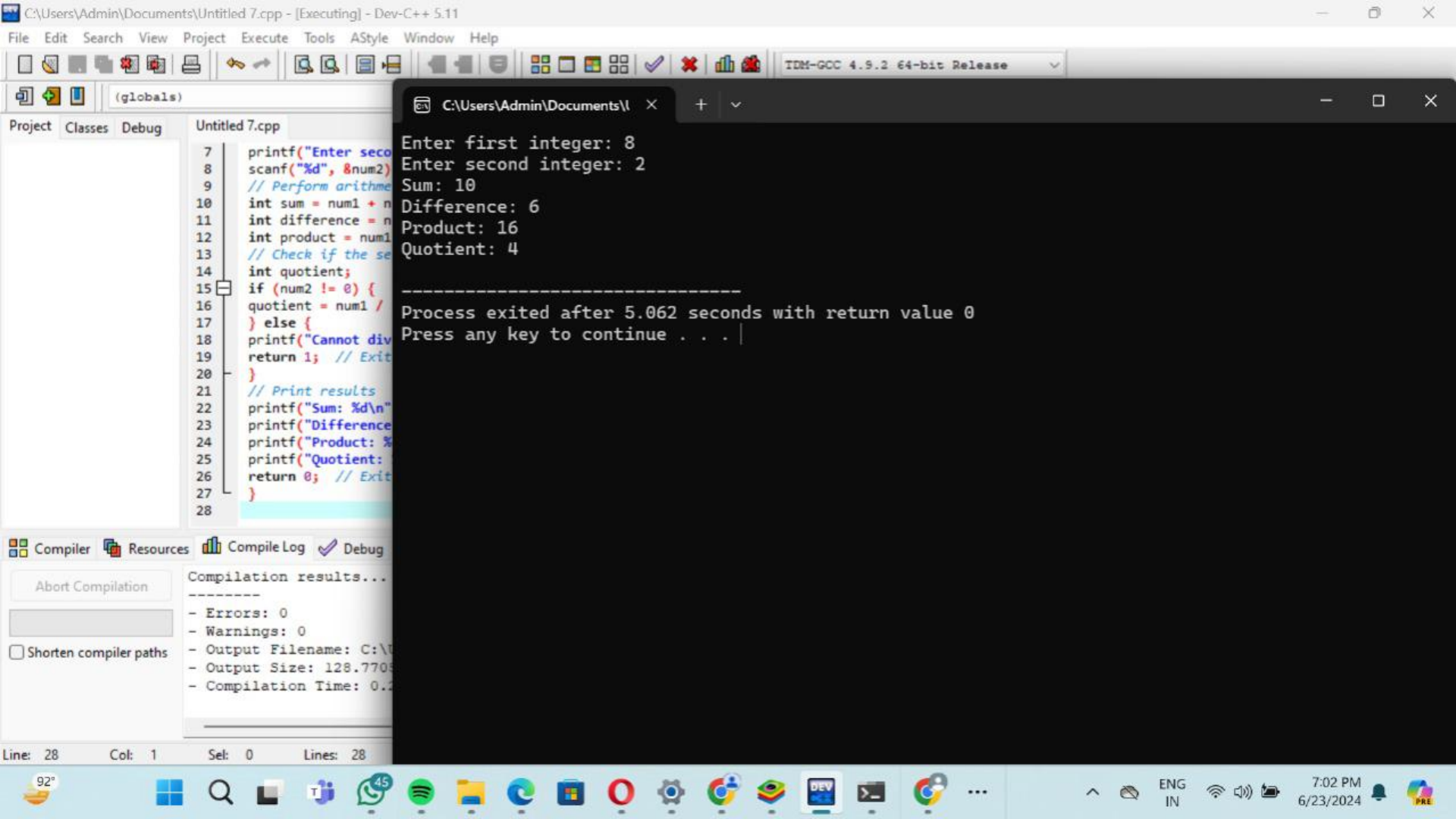

File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project C
[*] Untitled1
U3.cpp
#include <stdio.h>
int main() {
// Declare variables
float num1, num2, sum, sub, mul, div;
// Get input from the user
printf("Enter the first number: ");
scanf("%f", &num1);
printf("Enter the second number: ");
scanf("%f", &num2);
// Perform addition
sum = num1 + num2;
sub = num1 - num2;
mul = num1 * num2;
div = num1 / num2;
// Display the result
printf("The sum of %f and %f is %f\n", num1, num2, sum);
printf("The sub of %f and %f is %f\n", num1, num2, sub);
printf("The mul of %f and %f is %f\n", num1, num2, mul);
printf("The div of %f and %f is %f\n", num1, num2, div);
return 0;
}
C:\Users\INDU\OneDrive\Documents\U3.exe
Enter the first number: 2.4
Enter the second number: 3.0
The sum of 2.400000 and 3.000000 is 5.400000
The sub of 2.400000 and 3.000000 is -0.600000
The mul of 2.400000 and 3.000000 is 7.200000
The div of 2.400000 and 3.000000 is 0.800000
Process exited after 18.28 seconds with return value 0
Press any key to continue . . .
Compiler Resources Compile Log Debug Find Results Console Close
Abort Compilation
- Output Filename: C:\Users\INDU\OneDrive\Documents\U3.exe
- Output Size: 353.5205078125 KiB
- Compilation Time: 0.23s

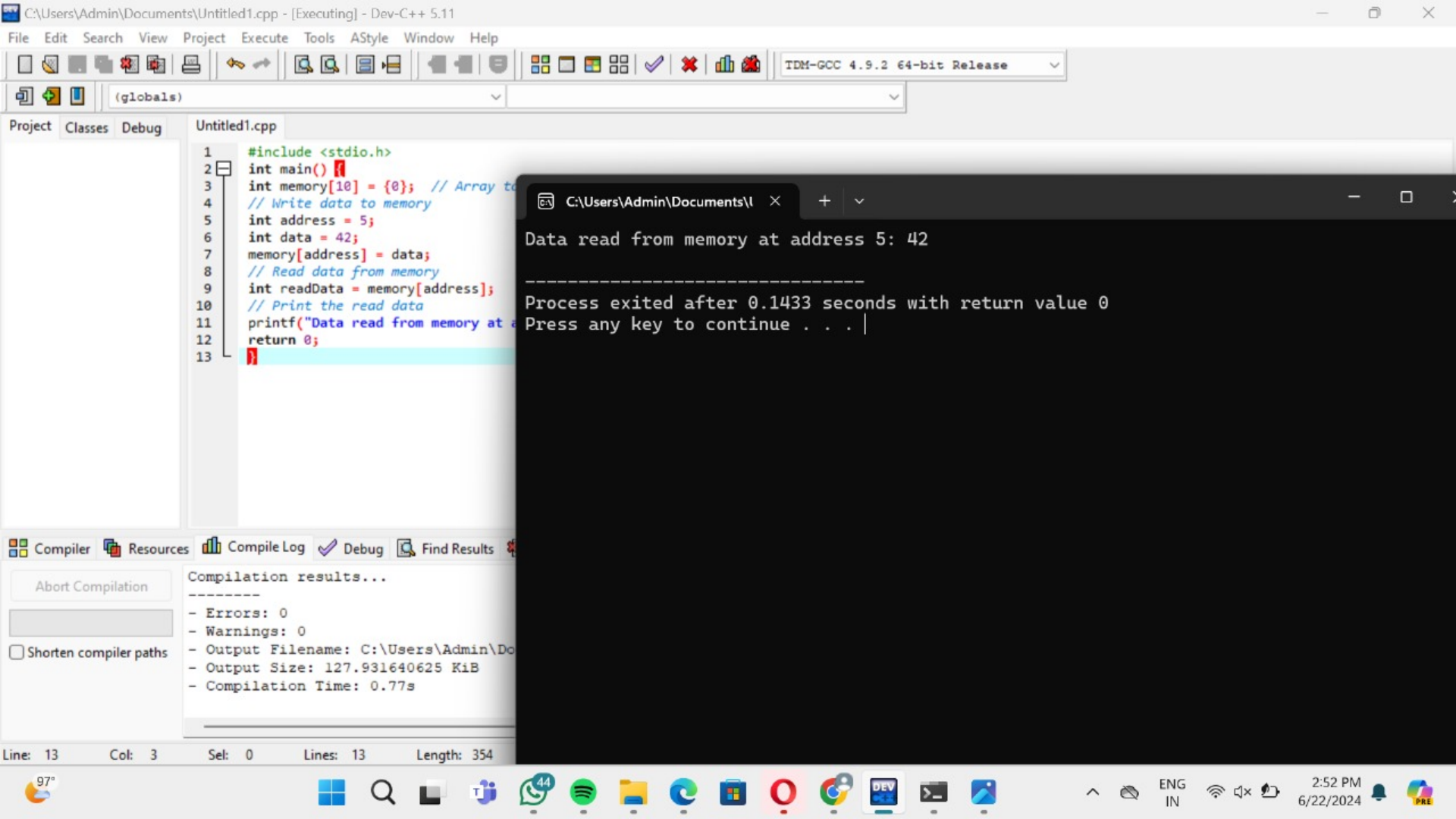

C:\Users\Admin\Documents\Untitled 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes
C:\Users\Admin\Documents\I
Double-precision representation of num1: 3.1415926535897931
Double-precision representation of num2: 2.7182818284590451
Result of multiplication (double-precision): 8.5397342226735660

Process exited after 0.04518 seconds with return value 0
Press any key to continue . . .
Compiler
Abort Compi
Shorten compi
Line: 11
92°
ENG
IN
7:05 PM
6/23/2024


C:\Users\Admin\Documents\Untitled 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
C:\Users\Admin\Documents\I
Single-precision representation of num1: 3.1415901
Single-precision representation of num2: 2.7182801
Result of multiplication (single-precision): 8.5397215

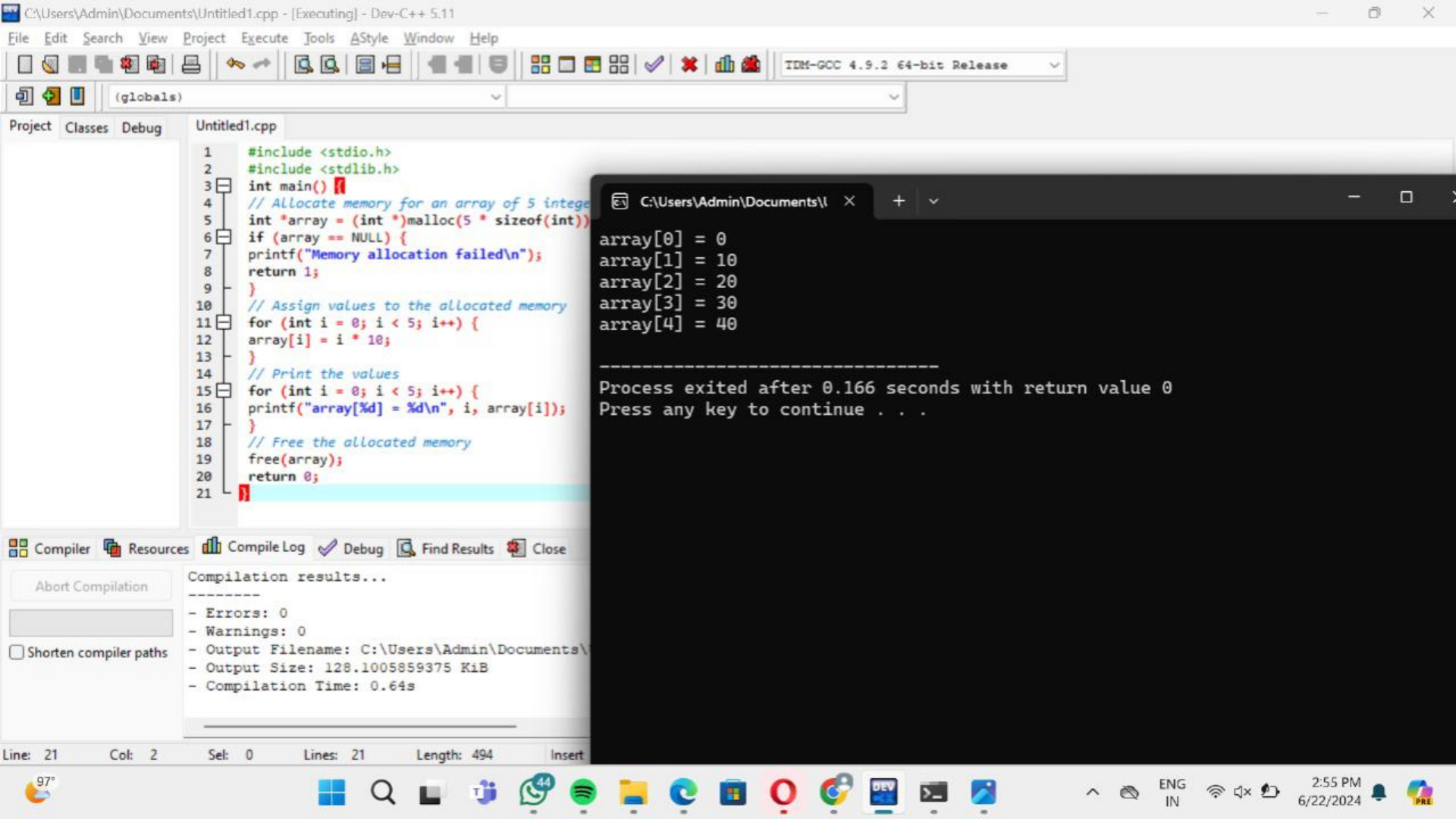
Process exited after 0.04868 seconds with return value 0
Press any key to continue . . .
Project
Line:
ENG
IN
7:04 PM
6/23/2024


C:\Users\Admin\Documents\Untitled 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled 7.cpp
printf("Enter seco
scanf("%d", &num2)
// Perform arithme
int sum = num1 + n
int difference = n
int product = num1
// Check if the se
int quotient;
if (num2 != 0) {
quotient = num1 /
} else {
printf("Cannot div
return 1; // Exit
}
// Print results
printf("Sum: %d\n"
printf("Difference
printf("Product: %
printf("Quotient:
return 0; // Exit
}
Compiler Resources Compile Log Debug
Abort Compilation
Shorten compiler paths
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\
- Output Size: 128.770
- Compilation Time: 0.2
Line: 28 Col: 1 Sel: 0 Lines: 28
C:\Users\Admin\Documents\
Enter first integer: 8
Enter second integer: 2
Sum: 10
Difference: 6
Product: 16
Quotient: 4
Process exited after 5.062 seconds with return value 0
Press any key to continue . . .
92°
ENG
IN
7:02 PM
6/23/2024


C:\Users\Admin\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
#include <stdio.h>
int main() {
int memory[10] = {0}; // Array to
// Write data to memory
int address = 5;
int data = 42;
memory[address] = data;
// Read data from memory
int readData = memory[address];
// Print the read data
printf("Data read from memory at a
return 0;
}
C:\Users\Admin\Documents\I
Data read from memory at address 5: 42

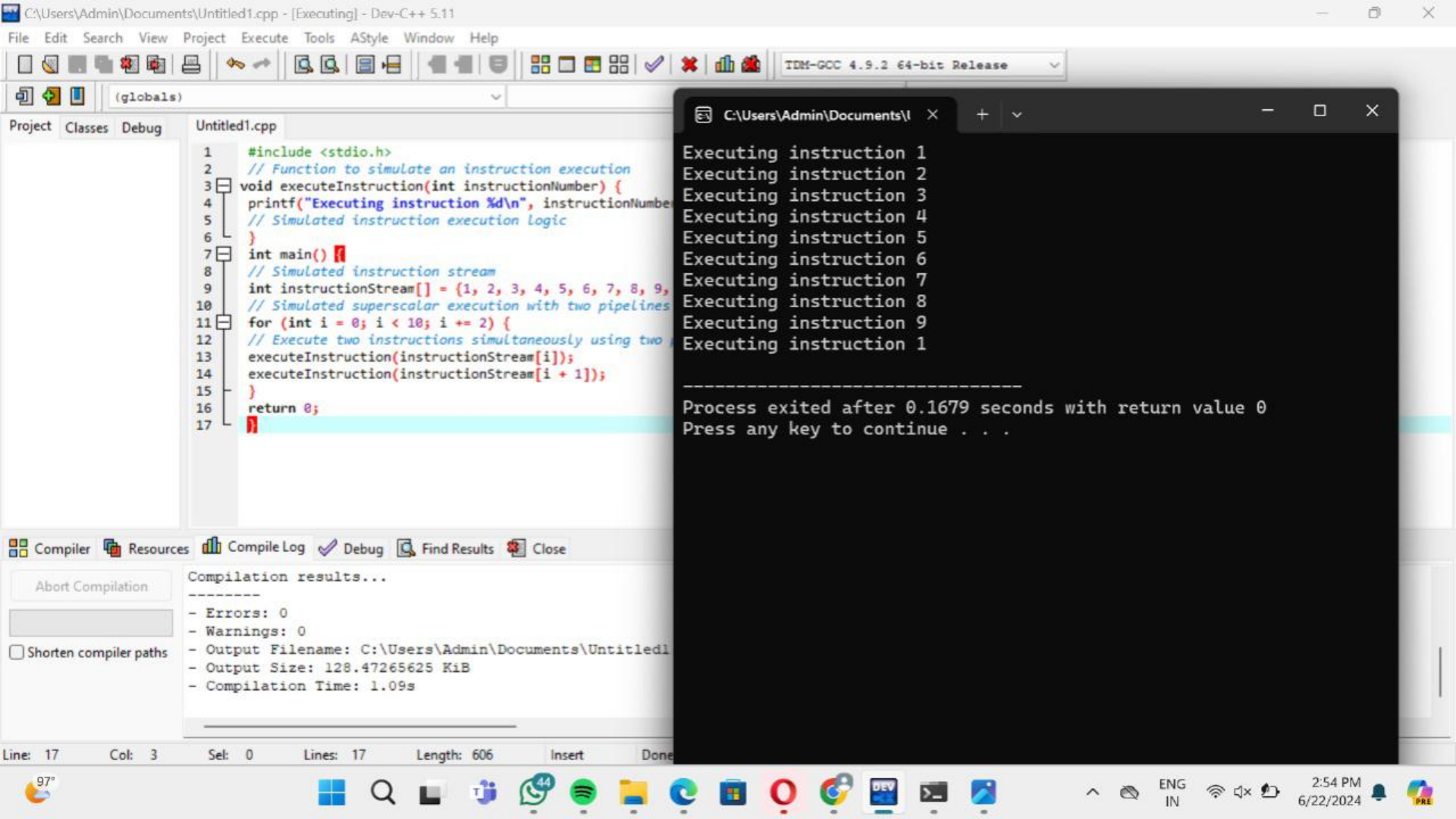
Process exited after 0.1433 seconds with return value 0
Press any key to continue . . .
Compiler Resources Compile Log Debug Find Results
Abort Compilation
Shorten compiler paths
Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\Do
- Output Size: 127.931640625 KiB
- Compilation Time: 0.77s
Line: 13 Col: 3 Sel: 0 Lines: 13 Length: 354
97°
ENG
IN
2:52 PM
6/22/2024


C:\Users\Admin\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
#include <stdio.h>
#include <stdlib.h>
int main() {
// Allocate memory for an array of 5 intege
int *array = (int *)malloc(5 * sizeof(int))
if (array == NULL) {
printf("Memory allocation failed\n");
return 1;
}
// Assign values to the allocated memory
for (int i = 0; i < 5; i++) {
array[i] = i * 10;
}
// Print the values
for (int i = 0; i < 5; i++) {
printf("array[%d] = %d\n", i, array[i]);
}
// Free the allocated memory
free(array);
return 0;
}
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...

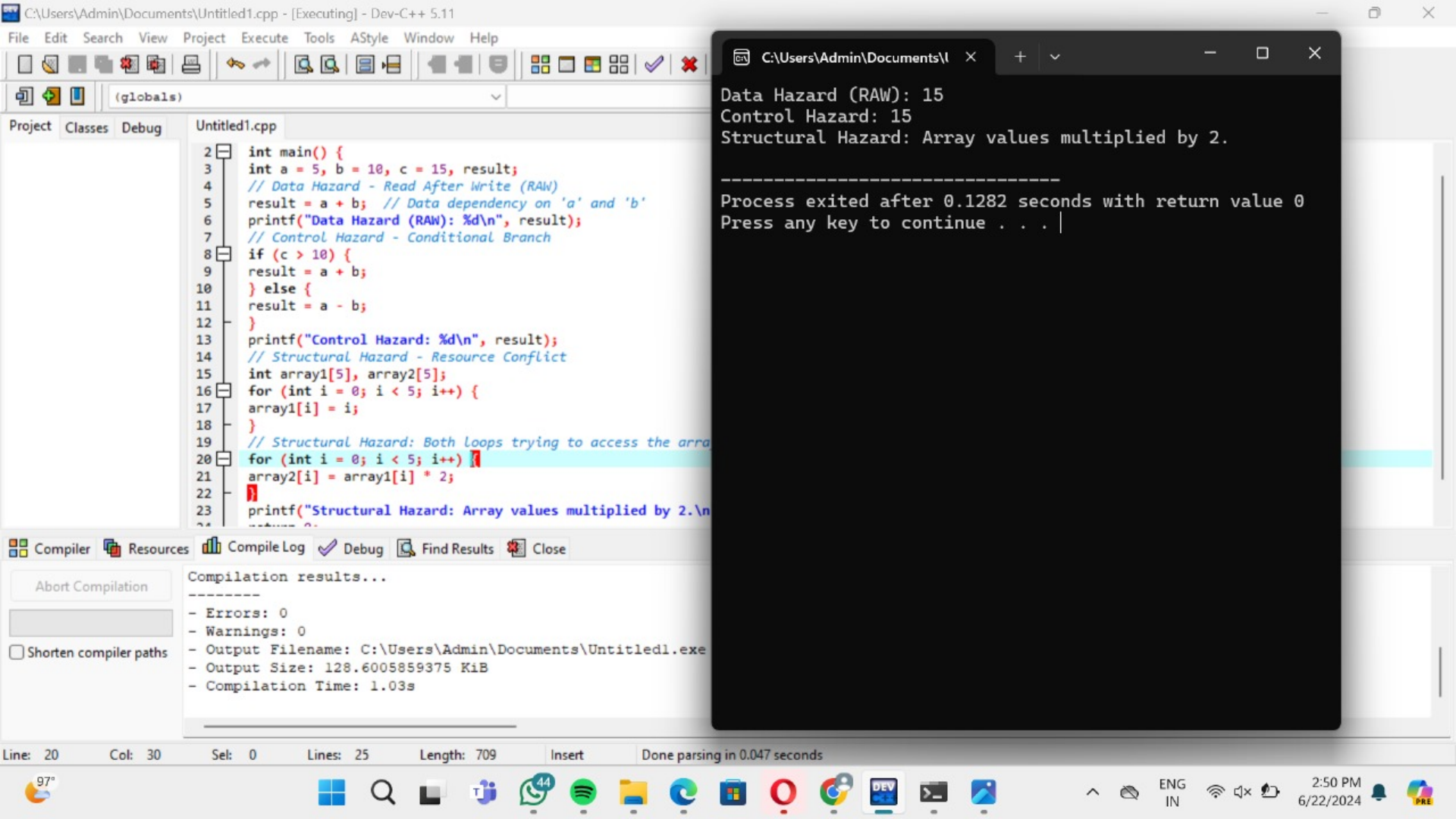
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\Documents\
- Output Size: 128.1005859375 KiB
- Compilation Time: 0.64s
Line: 21 Col: 2 Sel: 0 Lines: 21 Length: 494 Insert
C:\Users\Admin\Documents\
array[0] = 0
array[1] = 10
array[2] = 20
array[3] = 30
array[4] = 40

Process exited after 0.166 seconds with return value 0
Press any key to continue . . .
97°
ENG
IN
2:55 PM
6/22/2024


C:\Users\Admin\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
#include <stdio.h>
// Function to simulate an instruction execution
void executeInstruction(int instructionNumber) {
printf("Executing instruction %d\n", instructionNumbe
// Simulated instruction execution logic
}
int main() {
// Simulated instruction stream
int instructionStream[] = {1, 2, 3, 4, 5, 6, 7, 8, 9,
// Simulated superscalar execution with two pipelines
for (int i = 0; i < 10; i += 2) {
// Execute two instructions simultaneously using two
executeInstruction(instructionStream[i]);
executeInstruction(instructionStream[i + 1]);
}
return 0;
}
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...

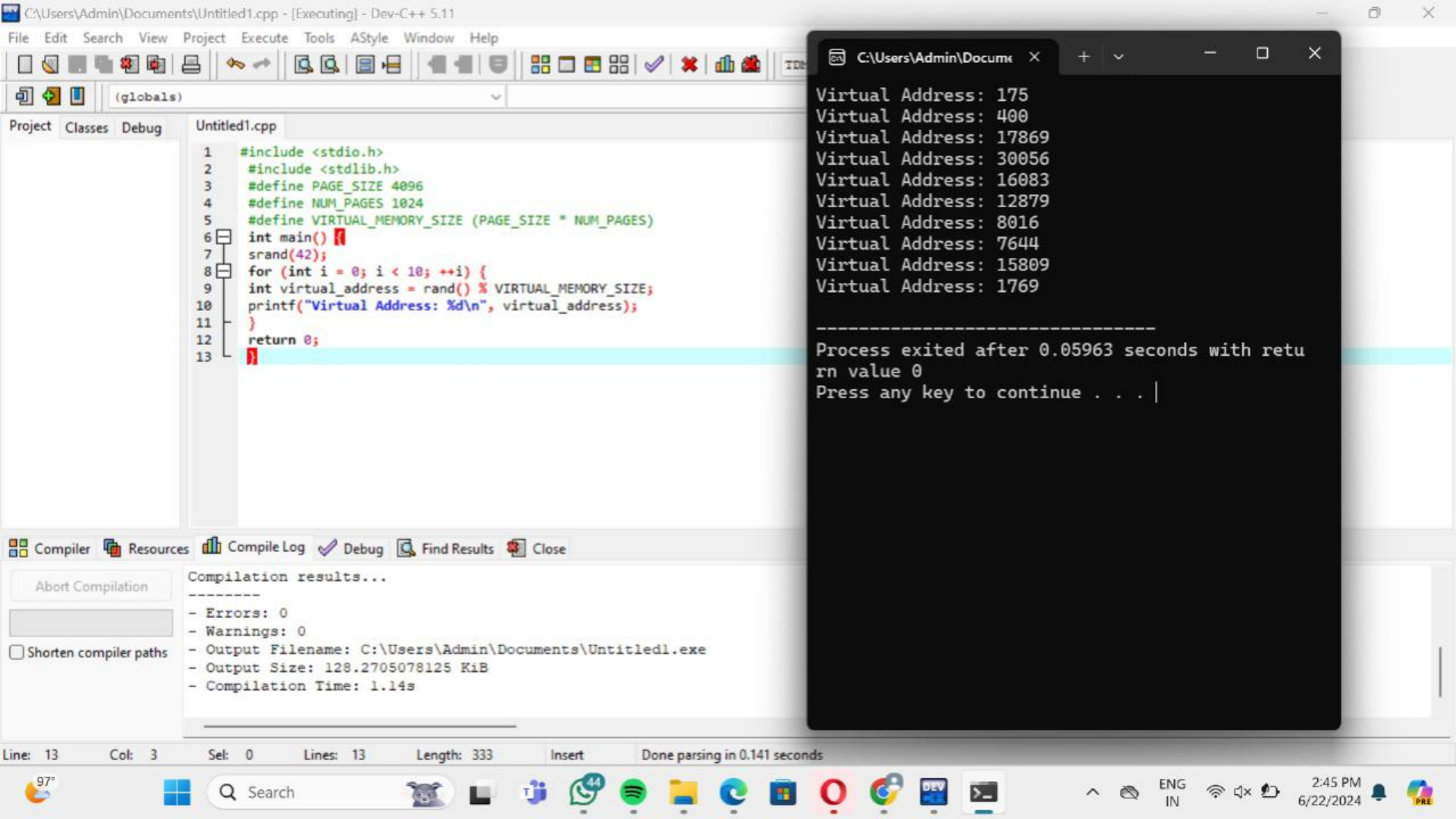
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\Documents\Untitled1
- Output Size: 128.47265625 KiB
- Compilation Time: 1.09s
Line: 17 Col: 3 Sel: 0 Lines: 17 Length: 606 Insert Done
C:\Users\Admin\Documents\I
Executing instruction 1
Executing instruction 2
Executing instruction 3
Executing instruction 4
Executing instruction 5
Executing instruction 6
Executing instruction 7
Executing instruction 8
Executing instruction 9
Executing instruction 1

Process exited after 0.1679 seconds with return value 0
Press any key to continue . . .
97°
ENG
IN
2:54 PM
6/22/2024


C:\Users\Admin\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
Untitled1.cpp
2 int main() {
3 int a = 5, b = 10, c = 15, result;
4 // Data Hazard - Read After Write (RAW)
5 result = a + b; // Data dependency on 'a' and 'b'
6 printf("Data Hazard (RAW): %d\n", result);
7 // Control Hazard - Conditional Branch
8 if (c > 10) {
9 result = a + b;
10 } else {
11 result = a - b;
12 }
13 printf("Control Hazard: %d\n", result);
14 // Structural Hazard - Resource Conflict
15 int array1[5], array2[5];
16 for (int i = 0; i < 5; i++) {
17 array1[i] = i;
18 }
19 // Structural Hazard: Both loops trying to access the arra
20 for (int i = 0; i < 5; i++) {
21 array2[i] = array1[i] * 2;
22 }
23 printf("Structural Hazard: Array values multiplied by 2.\n
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...

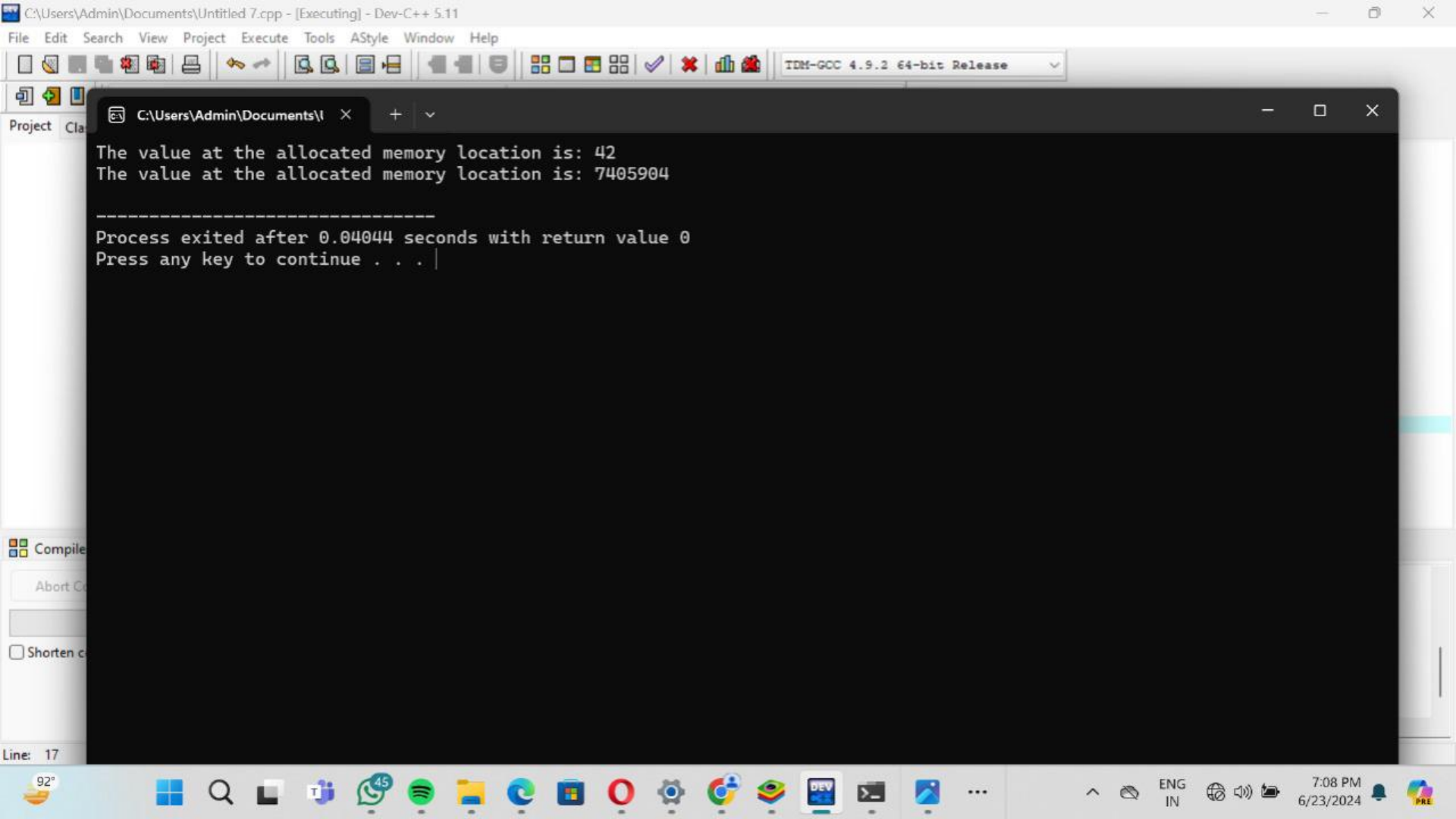
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\Documents\Untitled1.exe
- Output Size: 128.6005859375 KiB
- Compilation Time: 1.03s
Line: 20 Col: 30 Sel: 0 Lines: 25 Length: 709 Insert Done parsing in 0.047 seconds
C:\Users\Admin\Documents\
Data Hazard (RAW): 15
Control Hazard: 15
Structural Hazard: Array values multiplied by 2.

Process exited after 0.1282 seconds with return value 0
Press any key to continue . . .
97°
ENG IN
2:50 PM 6/22/2024

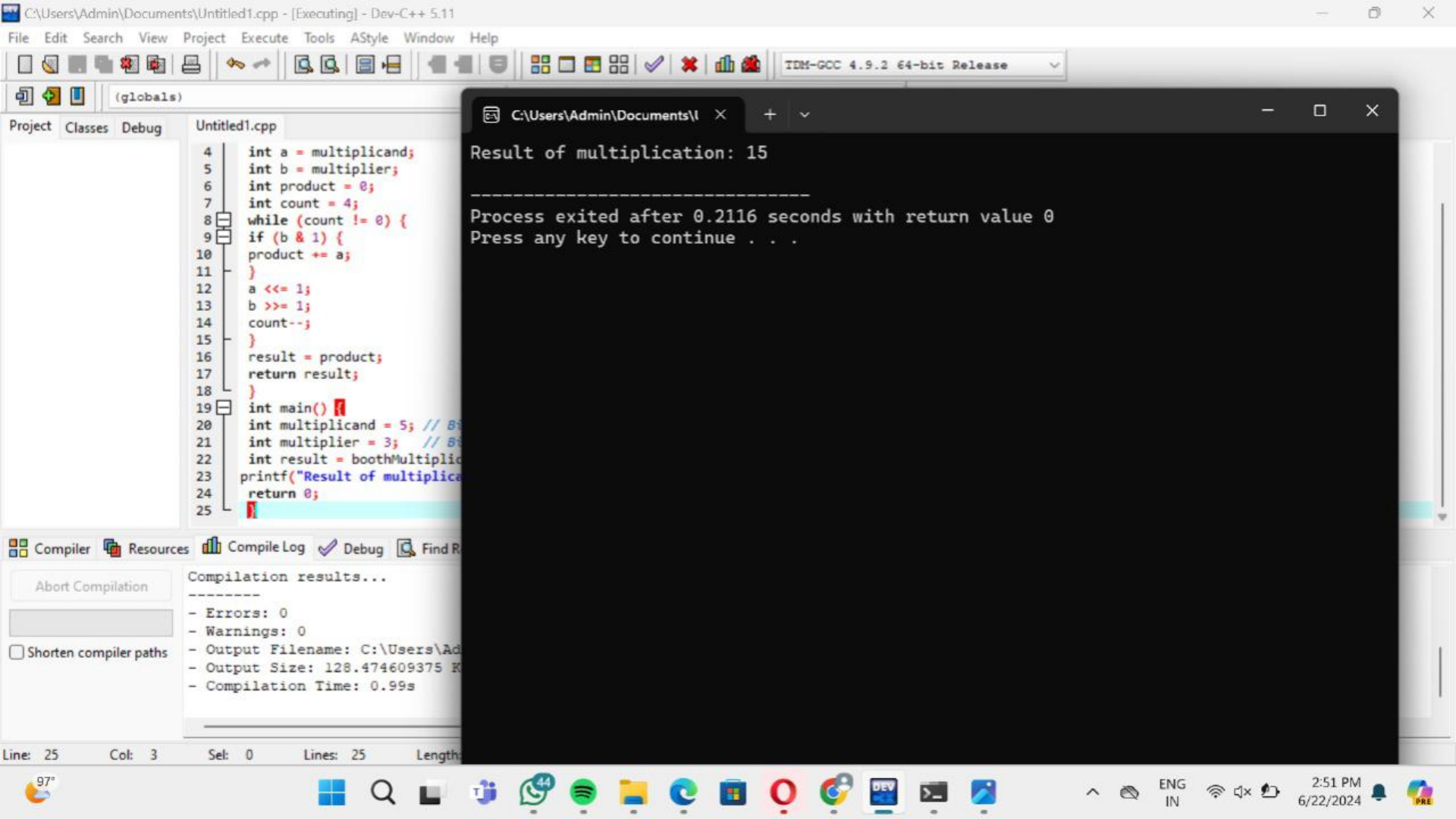

C:\Users\Admin\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
Untitled1.cpp
#include <stdio.h>
#include <stdlib.h>
#define PAGE_SIZE 4096
#define NUM_PAGES 1024
#define VIRTUAL_MEMORY_SIZE (PAGE_SIZE * NUM_PAGES)
int main() {
srand(42);
for (int i = 0; i < 10; ++i) {
int virtual_address = rand() % VIRTUAL_MEMORY_SIZE;
printf("Virtual Address: %d\n", virtual_address);
}
return 0;
}
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...

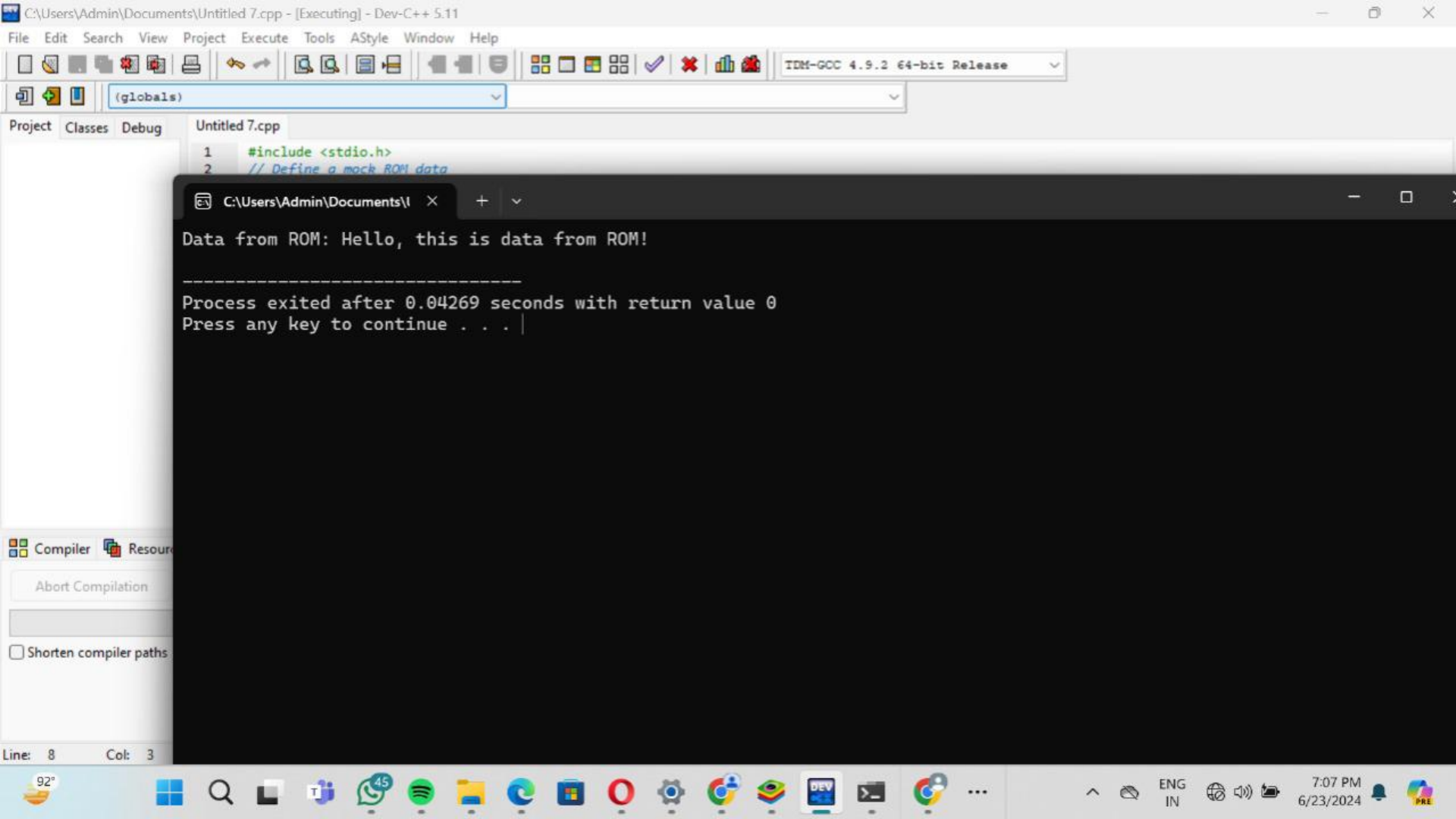
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\Documents\Untitled1.exe
- Output Size: 128.2705078125 KiB
- Compilation Time: 1.14s
Line: 13 Col: 3 Sel: 0 Lines: 13 Length: 333 Insert Done parsing in 0.141 seconds
C:\Users\Admin\Docume
Virtual Address: 175
Virtual Address: 400
Virtual Address: 17869
Virtual Address: 30056
Virtual Address: 16083
Virtual Address: 12879
Virtual Address: 8016
Virtual Address: 7644
Virtual Address: 15809
Virtual Address: 1769

Process exited after 0.05963 seconds with retu
rn value 0
Press any key to continue . . .
Search
ENG
IN
2:45 PM
6/22/2024


C:\Users\Admin\Documents\Untitled 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
C:\Users\Admin\Documents\I
The value at the allocated memory location is: 42
The value at the allocated memory location is: 7405904

Process exited after 0.04044 seconds with return value 0
Press any key to continue . . .
Compile
Abort C
Shorten c
Line: 17
92°
ENG
IN
7:08 PM
6/23/2024


C:\Users\Admin\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
4 int a = multiplicand;
5 int b = multiplier;
6 int product = 0;
7 int count = 4;
8 while (count != 0) {
9 if (b & 1) {
10 product += a;
11 }
12 a <<= 1;
13 b >>= 1;
14 count--;
15 }
16 result = product;
17 return result;
18 }
19 int main() {
20 int multiplicand = 5; // Bi
21 int multiplier = 3; // Bi
22 int result = boothMultiplic
23 printf("Result of multiplica
24 return 0;
25 }
Compiler Resources Compile Log Debug Find R
Abort Compilation
Shorten compiler paths
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Ad
- Output Size: 128.474609375 K
- Compilation Time: 0.99s
Line: 25 Col: 3 Sel: 0 Lines: 25 Length
C:\Users\Admin\Documents\I
Result of multiplication: 15
Process exited after 0.2116 seconds with return value 0
Press any key to continue . . .
97°
ENG
IN
2:51 PM
6/22/2024


C:\Users\Admin\Documents\Untitled 7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled 7.cpp
#include <stdio.h>
// Define a mock ROM data
C:\Users\Admin\Documents\I
Data from ROM: Hello, this is data from ROM!
Process exited after 0.04269 seconds with return value 0
Press any key to continue . . .
Compiler
Abort Compilation
Shorten compiler paths
Line: 8 Col: 3
ENG IN
7:07 PM 6/23/2024