

Aror University of Art, Architecture, Design & Heritage
Sukkur.

Department of Artificial Intelligence and Multimedia
Gaming Fundamentals of Programming (Fall-2025)

LAB No. 02

Name: Muhammad Taha

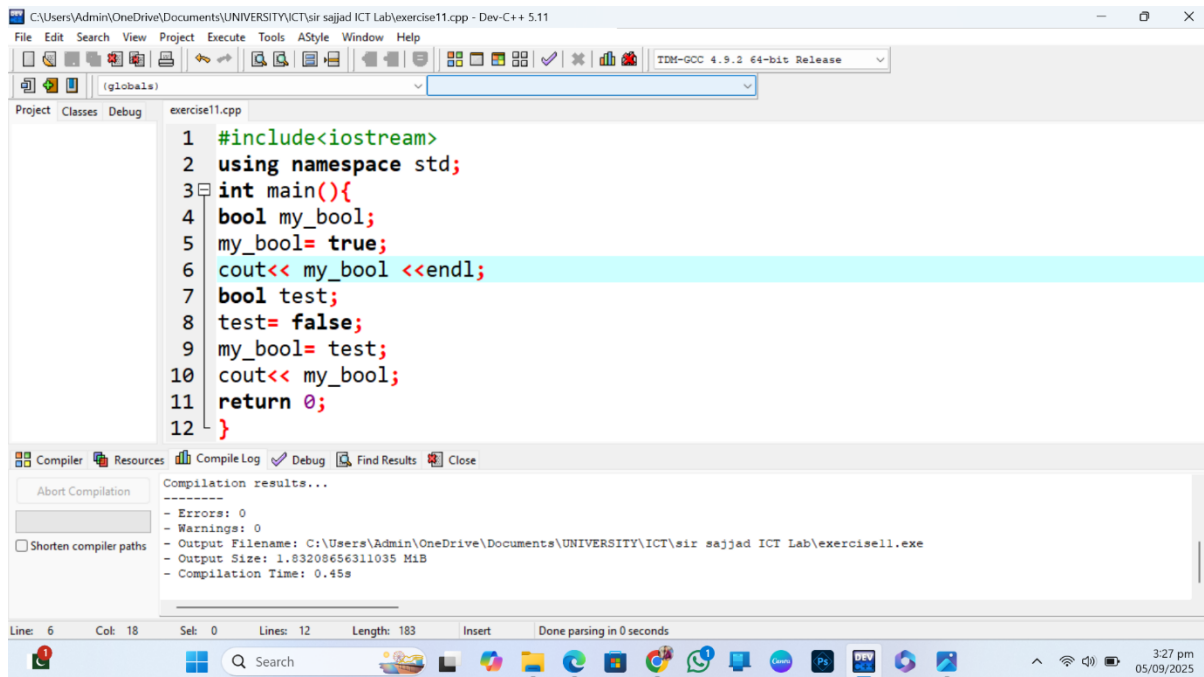
Father's Name: Riaz Ahmed

Sap id: 5000001141

Section: D

Exercise: 1

Code:

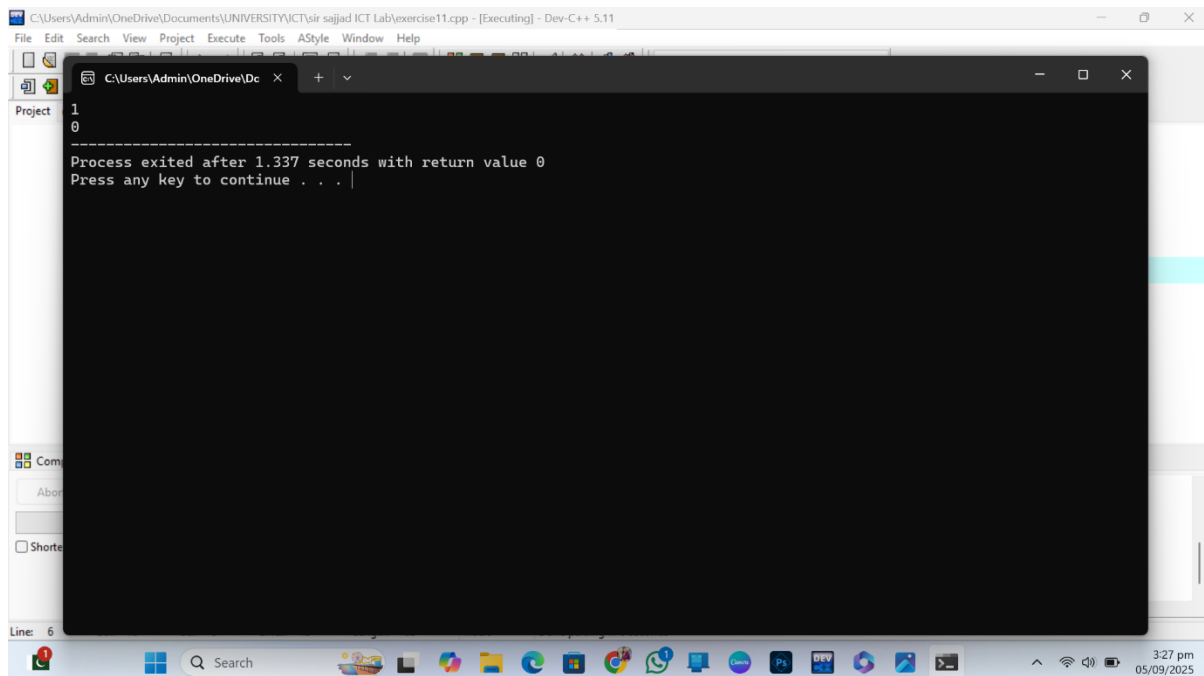


```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     bool my_bool;
5     my_bool= true;
6     cout<< my_bool <<endl;
7     bool test;
8     test= false;
9     my_bool= test;
10    cout<< my_bool;
11    return 0;
12 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercisell.exe
- Output Size: 1.83208656311035 MiB
- Compilation Time: 0.45s

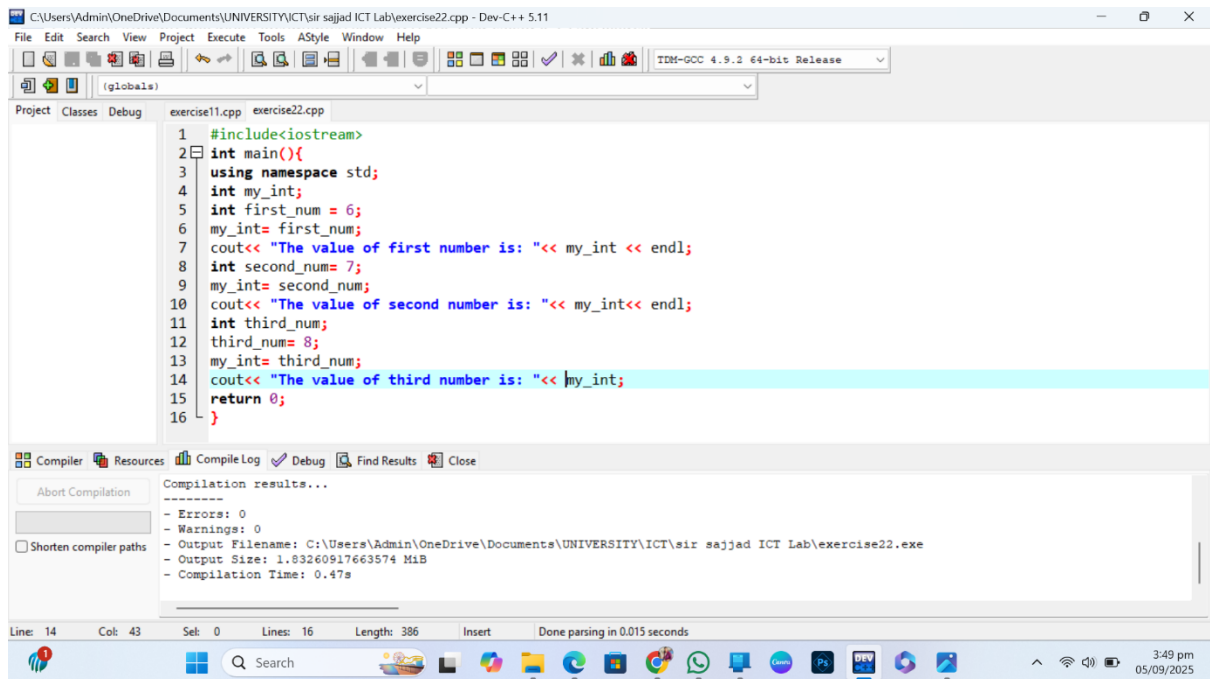
Output:



```
1
0
-----
Process exited after 1.337 seconds with return value 0
Press any key to continue . . .
```

Exercise: 2

Code:

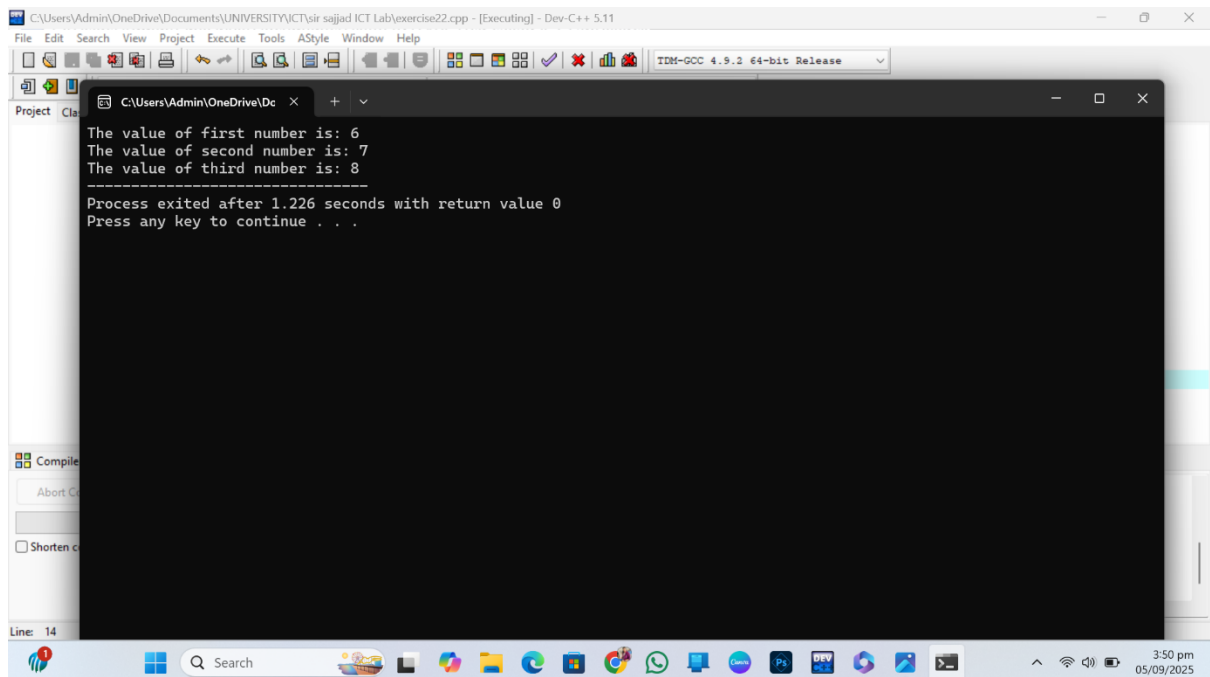


```
1 #include<iostream>
2 int main(){
3     using namespace std;
4     int my_int;
5     int first_num = 6;
6     my_int= first_num;
7     cout<< "The value of first number is: "<< my_int << endl;
8     int second_num= 7;
9     my_int= second_num;
10    cout<< "The value of second number is: "<< my_int<< endl;
11    int third_num;
12    third_num= 8;
13    my_int= third_num;
14    cout<< "The value of third number is: "<< my_int;
15    return 0;
16 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercise22.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.47s

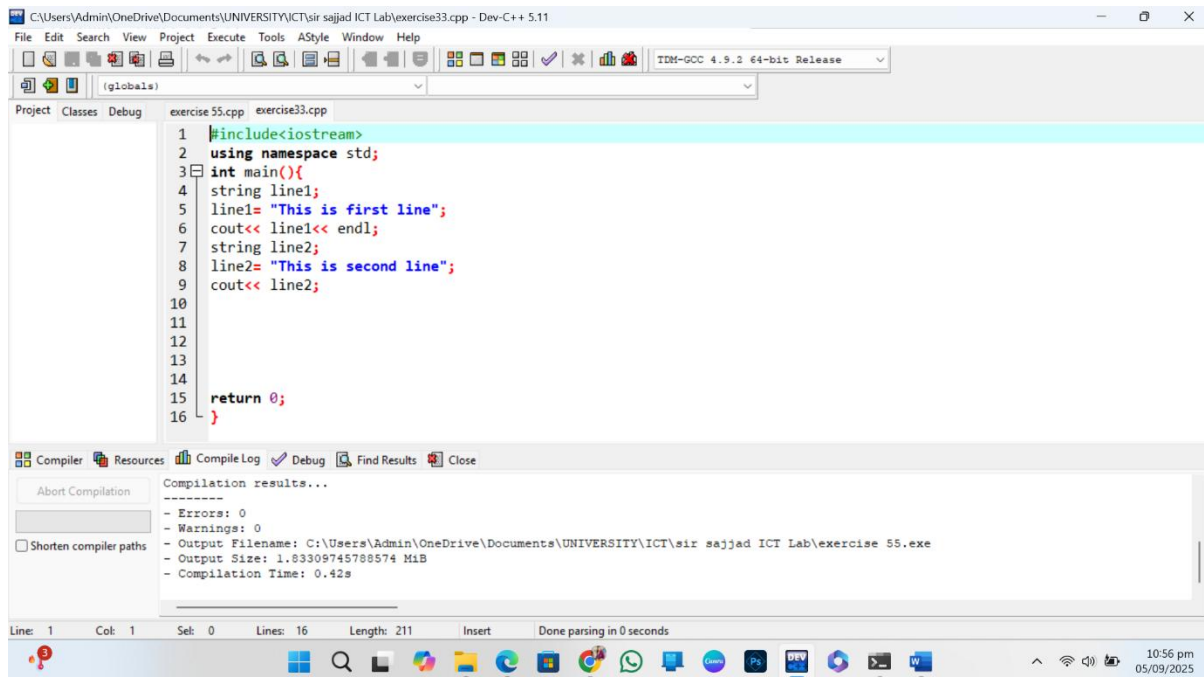
Output:



```
The value of first number is: 6
The value of second number is: 7
The value of third number is: 8
-----
Process exited after 1.226 seconds with return value 0
Press any key to continue . . .
```

Exercise: 3

Code:



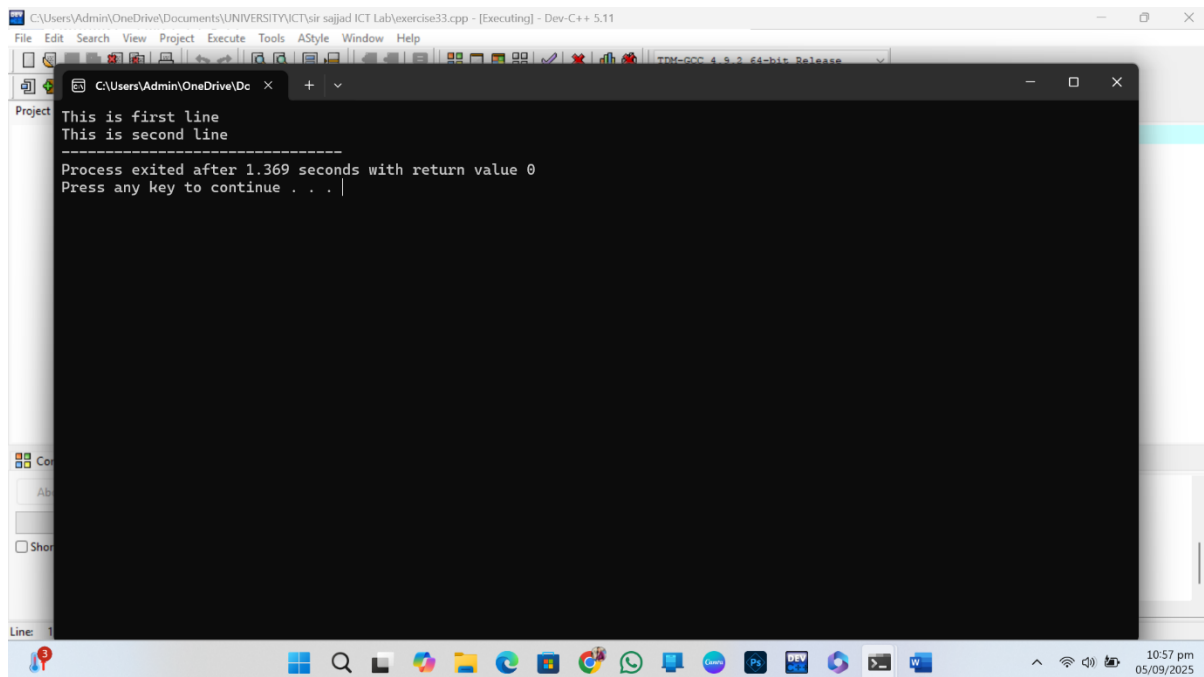
The screenshot shows the Visual Studio IDE with the file `exercise33.cpp` open. The code is as follows:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     string line1;
5     line1= "This is first line";
6     cout<< line1<< endl;
7     string line2;
8     line2= "This is second line";
9     cout<< line2;
10
11
12
13
14
15     return 0;
16 }
```

Below the code editor, the 'Compiler' window shows the compilation results:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercise 55.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 0.42s
```

Output:

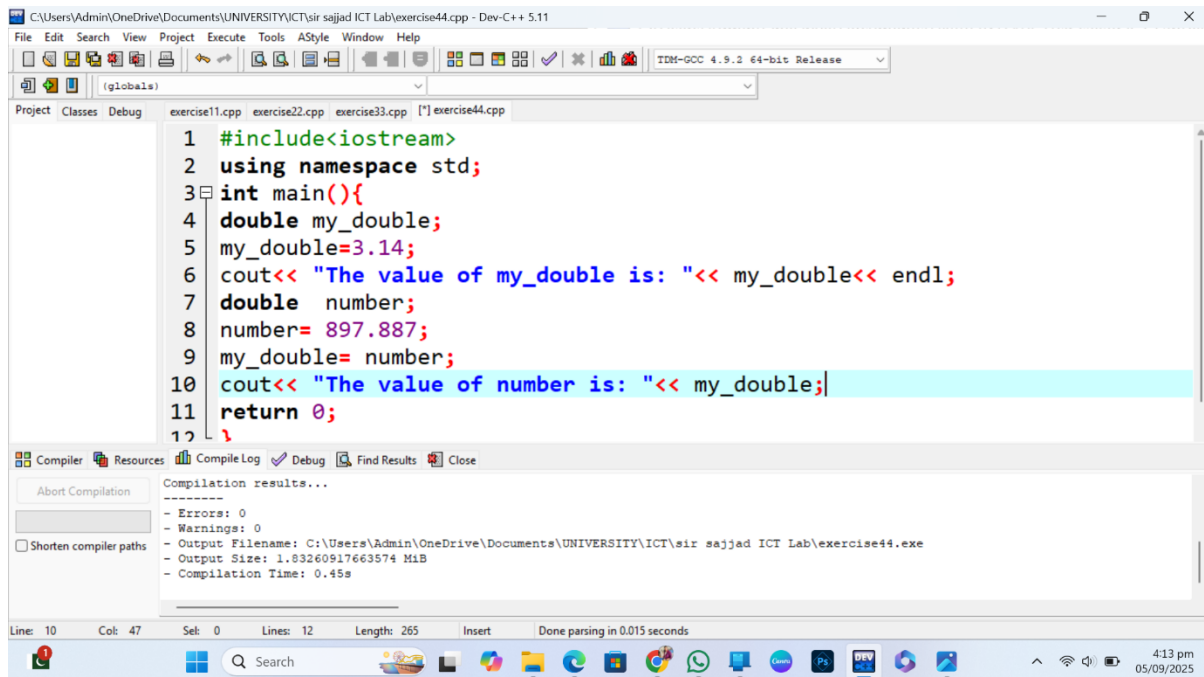


The screenshot shows the Visual Studio IDE with the file `exercise33.cpp` open. The output window displays the following text:

```
This is first line
This is second line
-----
Process exited after 1.369 seconds with return value 0
Press any key to continue . . .
```

Exercise 4:

Code:



The screenshot shows a C++ IDE window titled "C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercise44.cpp - Dev-C++ 5.11". The code in the editor is as follows:

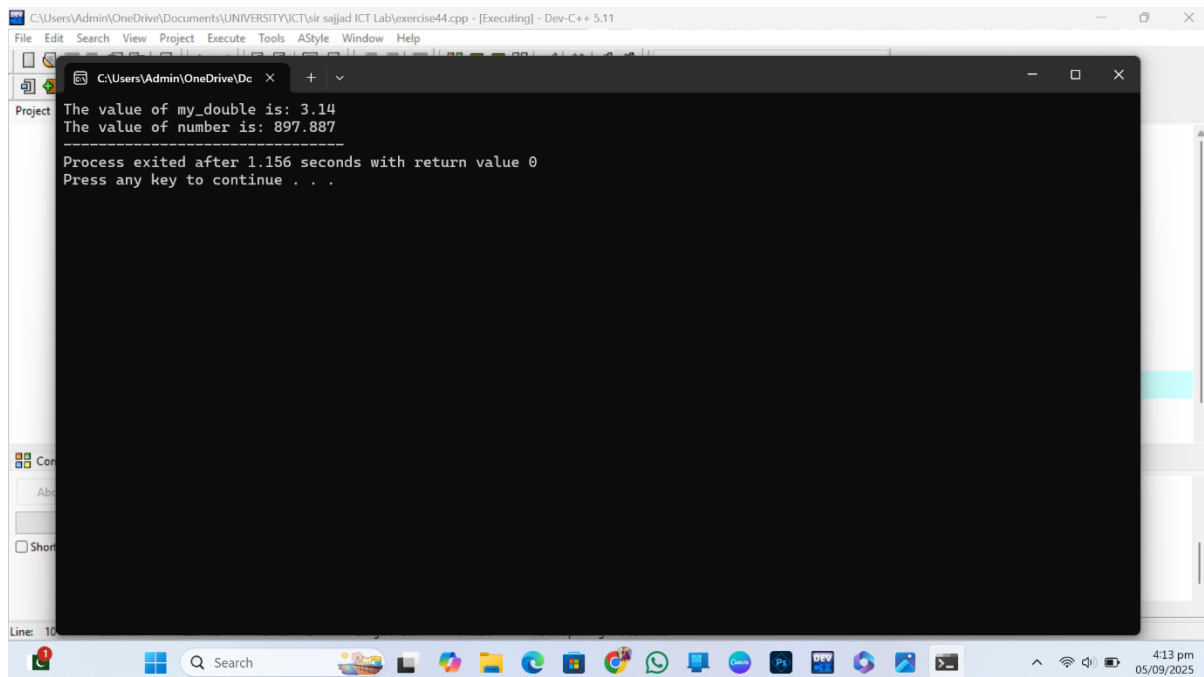
```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     double my_double;
5     my_double=3.14;
6     cout<< "The value of my_double is: "<< my_double<< endl;
7     double number;
8     number= 897.887;
9     my_double= number;
10    cout<< "The value of number is: "<< my_double;
11    return 0;
12 }
```

Below the code editor, the "Compiler" tab shows the "Compilation results..." with the following output:

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercise44.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.45s
```

The status bar at the bottom indicates "Line: 10 Col: 47 Sel: 0 Lines: 12 Length: 265 Insert Done parsing in 0.015 seconds". The system tray shows the time as 4:13 pm on 05/09/2025.

Output:



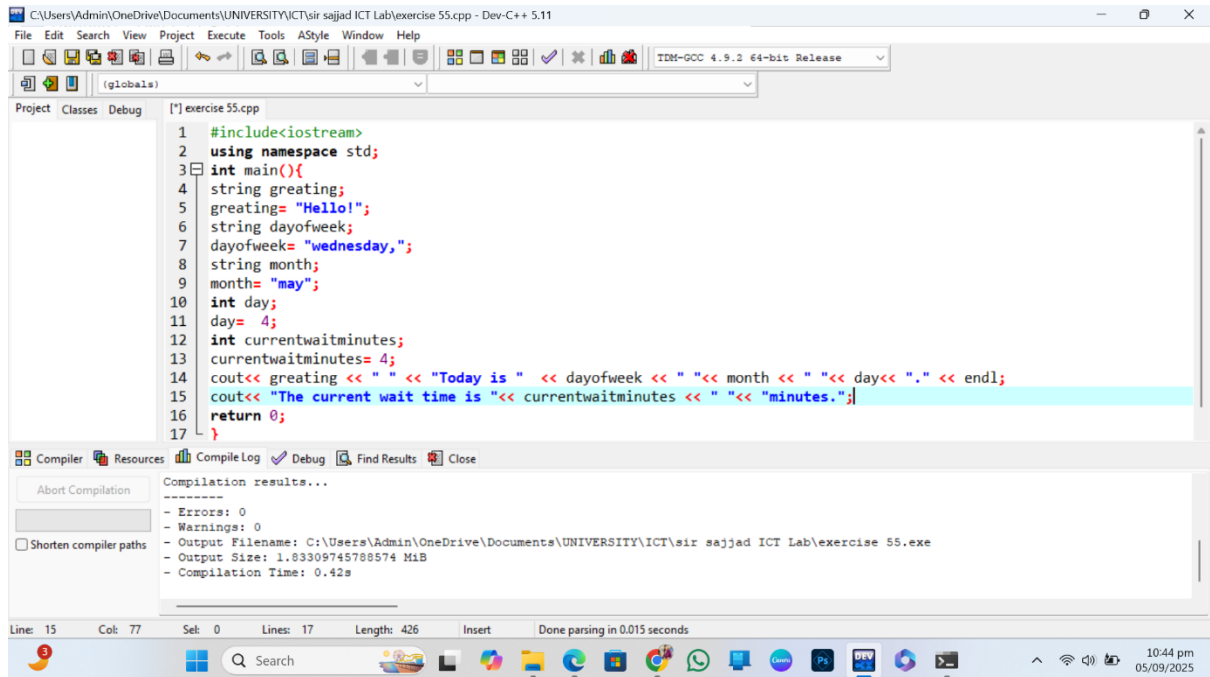
The screenshot shows a terminal window titled "C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercise44.cpp - [Executing] - Dev-C++ 5.11". The output of the program is displayed as follows:

```
The value of my_double is: 3.14
The value of number is: 897.887
-----
Process exited after 1.156 seconds with return value 0
Press any key to continue . . .
```

The terminal window is overlaid on the IDE, which is partially visible in the background. The system tray at the bottom shows the time as 4:13 pm on 05/09/2025.

Exercise: 5

Code:



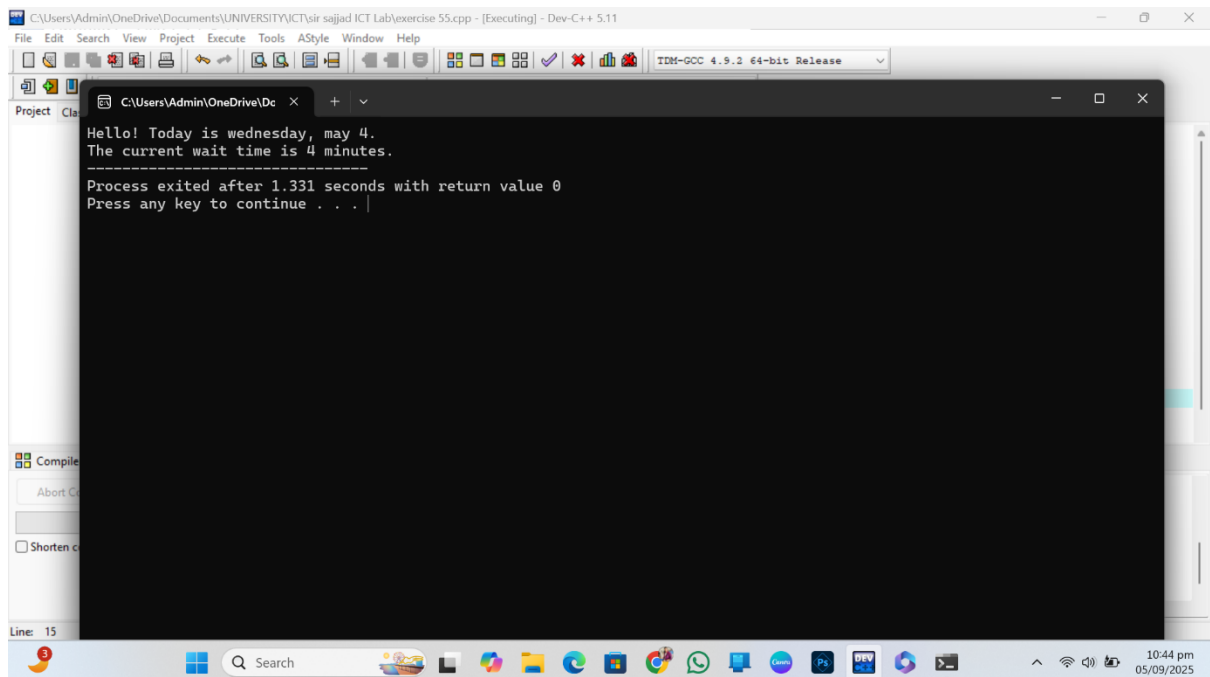
The screenshot shows the Dev-C++ IDE with the file 'exercise 55.cpp' open. The code is as follows:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     string greating;
5     greating= "Hello!";
6     string dayofweek;
7     dayofweek= "wednesday,";
8     string month;
9     month= "may";
10    int day;
11    day= 4;
12    int currentwaitminutes;
13    currentwaitminutes= 4;
14    cout<< greating << " " << "Today is " << dayofweek << " " << month << " " << day<< "." << endl;
15    cout<< "The current wait time is "<< currentwaitminutes << " "<< "minutes.";
16    return 0;
17 }
```

Below the code editor, the 'Compiler' tab is active, showing the following compilation results:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercise 55.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 0.42s
```

Output:

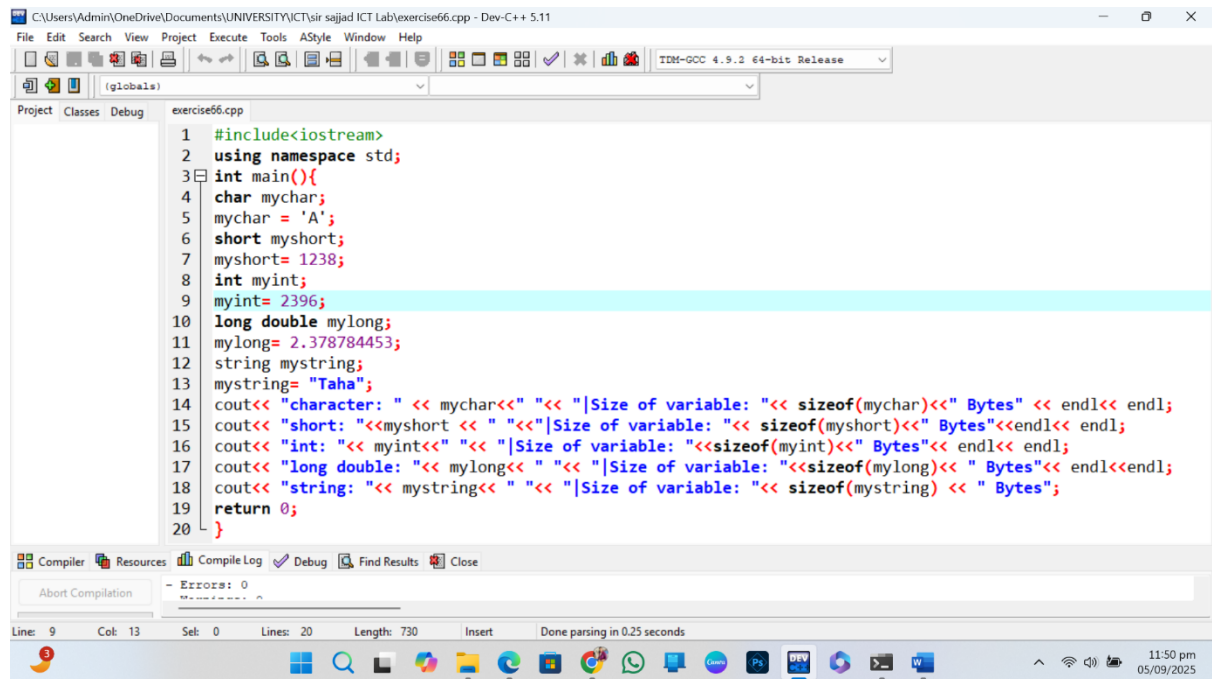


The screenshot shows the Dev-C++ IDE with the program executed. The output window displays the following text:

```
Hello! Today is wednesday, may 4.
The current wait time is 4 minutes.
-----
Process exited after 1.331 seconds with return value 0
Press any key to continue . . . |
```

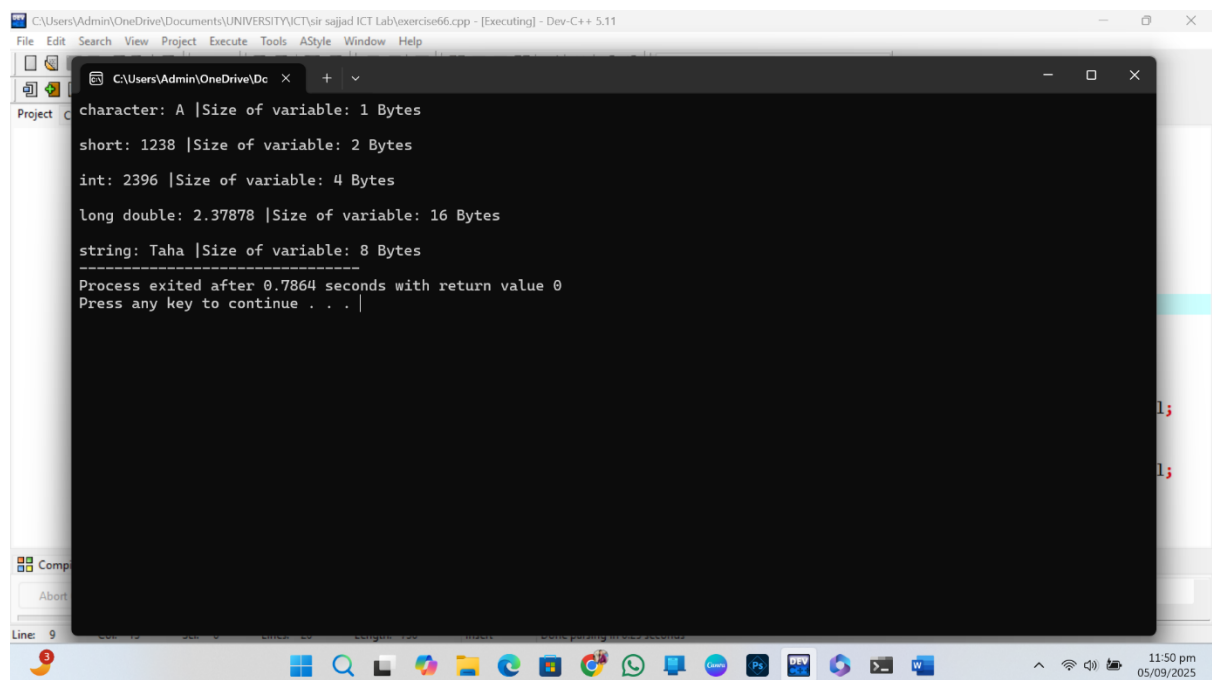
Exercise 6:

Code:



```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     char mychar;
5     mychar = 'A';
6     short myshort;
7     myshort= 1238;
8     int myint;
9     myint= 2396;
10    long double mylong;
11    mylong= 2.378784453;
12    string mystring;
13    mystring= "Taha";
14    cout<< "character: " << mychar<< " " << "|Size of variable: "<< sizeof(mychar)<<" Bytes" << endl<< endl;
15    cout<< "short: "<<myshort << " " << "|Size of variable: "<< sizeof(myshort)<<" Bytes"<<endl<< endl;
16    cout<< "int: "<< myint<< " " << "|Size of variable: "<<sizeof(myint)<<" Bytes"<< endl<< endl;
17    cout<< "long double: "<< mylong<< " " << "|Size of variable: "<<sizeof(mylong)<< " Bytes"<< endl<<endl;
18    cout<< "string: "<< mystring<< " " << "|Size of variable: "<< sizeof(mystring) << " Bytes";
19    return 0;
20 }
```

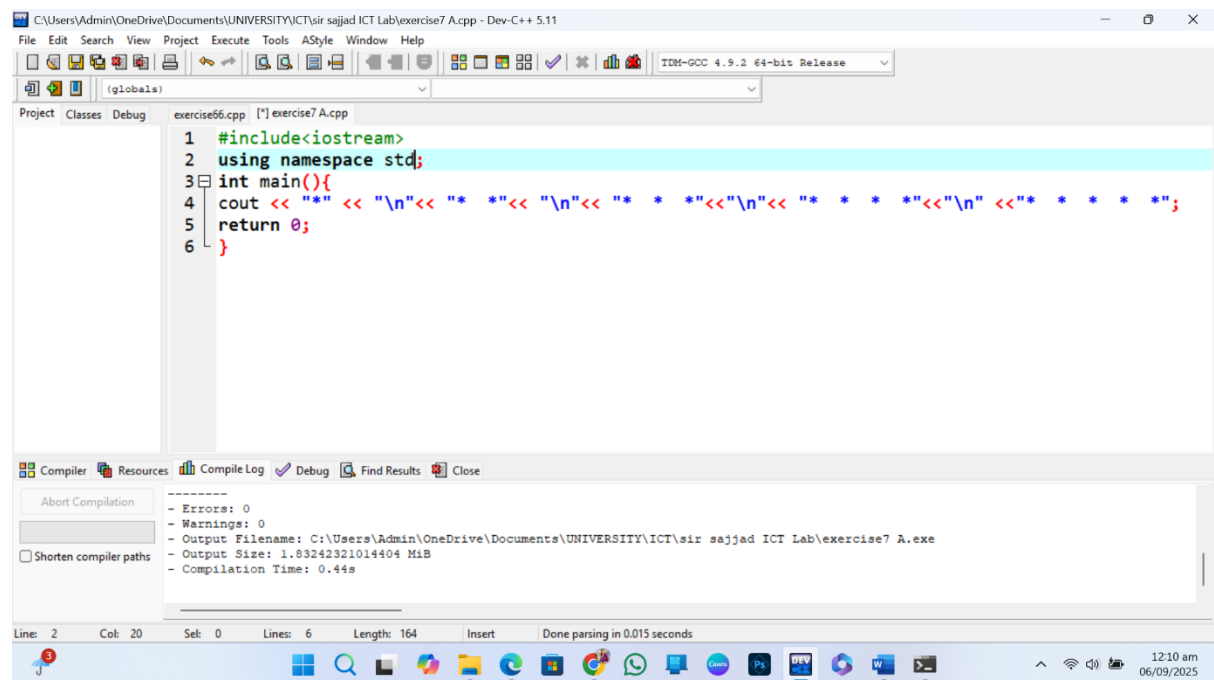
Output:



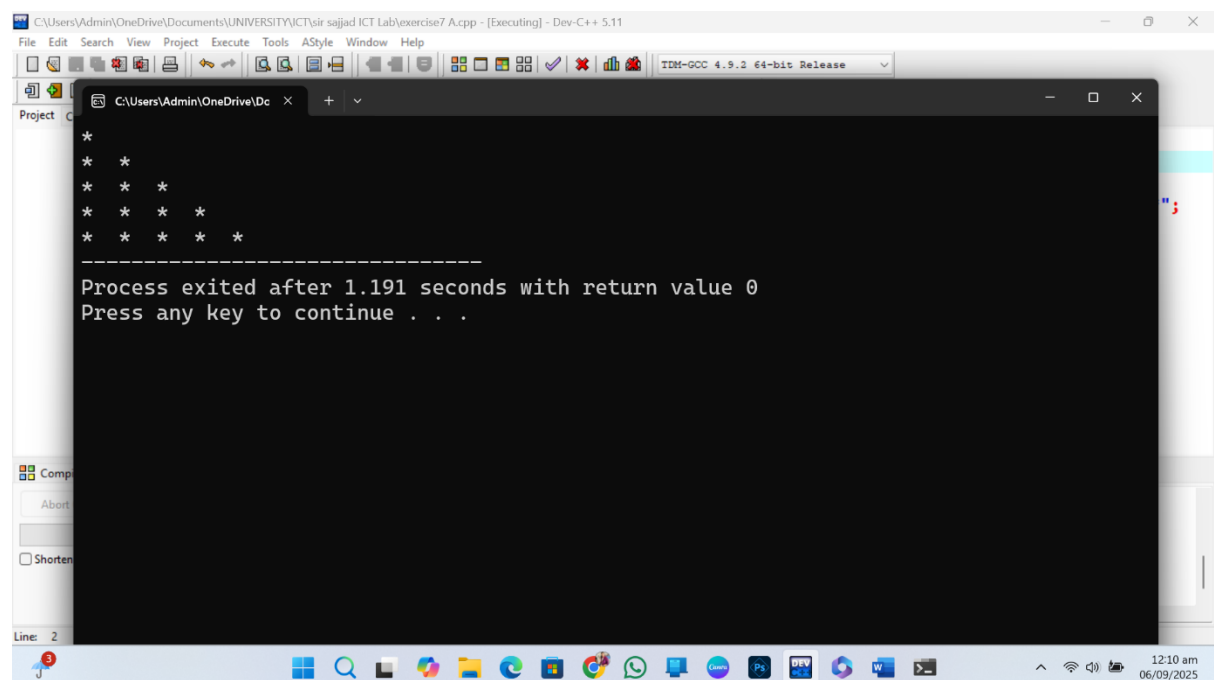
```
character: A |Size of variable: 1 Bytes
short: 1238 |Size of variable: 2 Bytes
int: 2396 |Size of variable: 4 Bytes
long double: 2.37878 |Size of variable: 16 Bytes
string: Taha |Size of variable: 8 Bytes
-----
Process exited after 0.7864 seconds with return value 0
Press any key to continue . . .
```

A

Code:

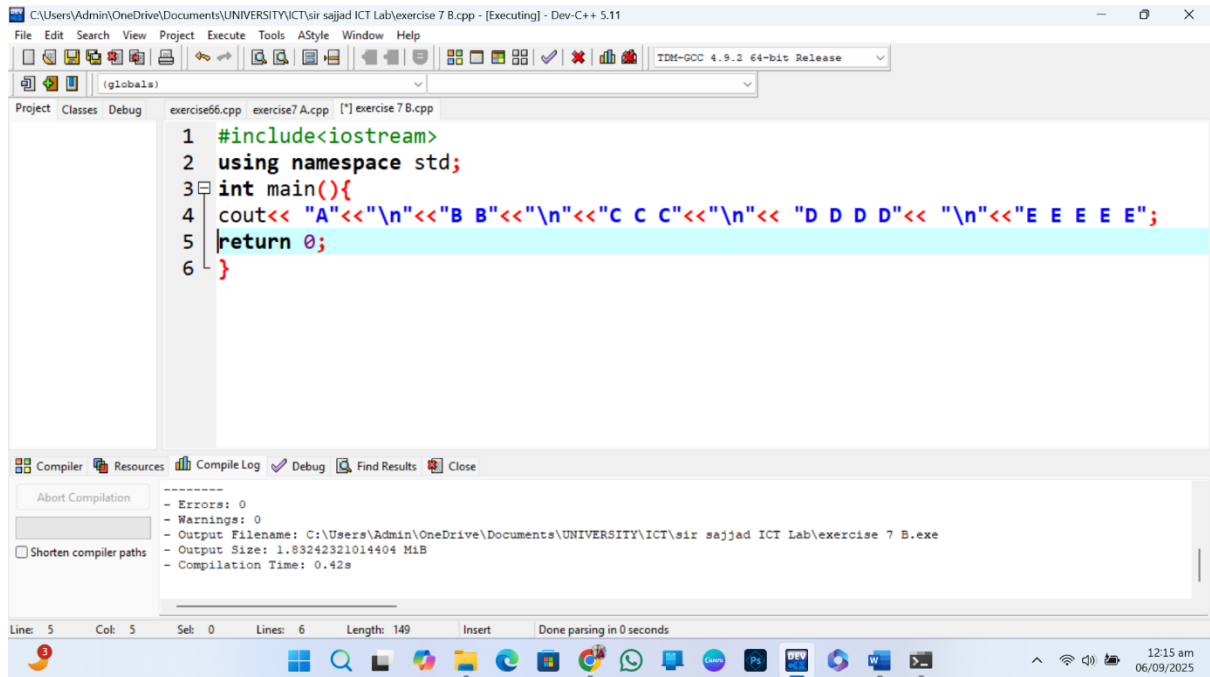


Output:



B:

Code:

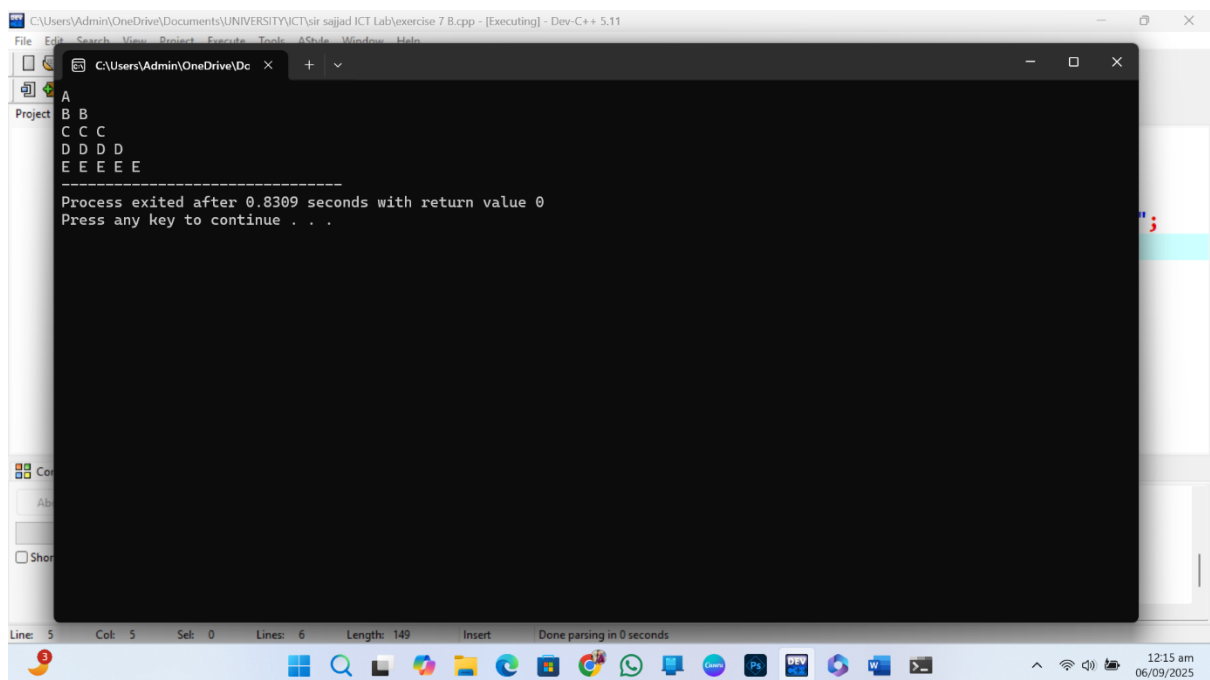


```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     cout<< "A"<<"\n"<<"B B"<<"\n"<<"C C C"<<"\n"<< "D D D D"<< "\n"<<"E E E E E";
5     return 0;
6 }
```

Compiler Output:

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\OneDrive\Documents\UNIVERSITY\ICT\sir sajjad ICT Lab\exercise 7 B.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 0.42s

Output:



```
A
B B
C C C
D D D D
E E E E E
-----
Process exited after 0.8309 seconds with return value 0
Press any key to continue . . .
```

