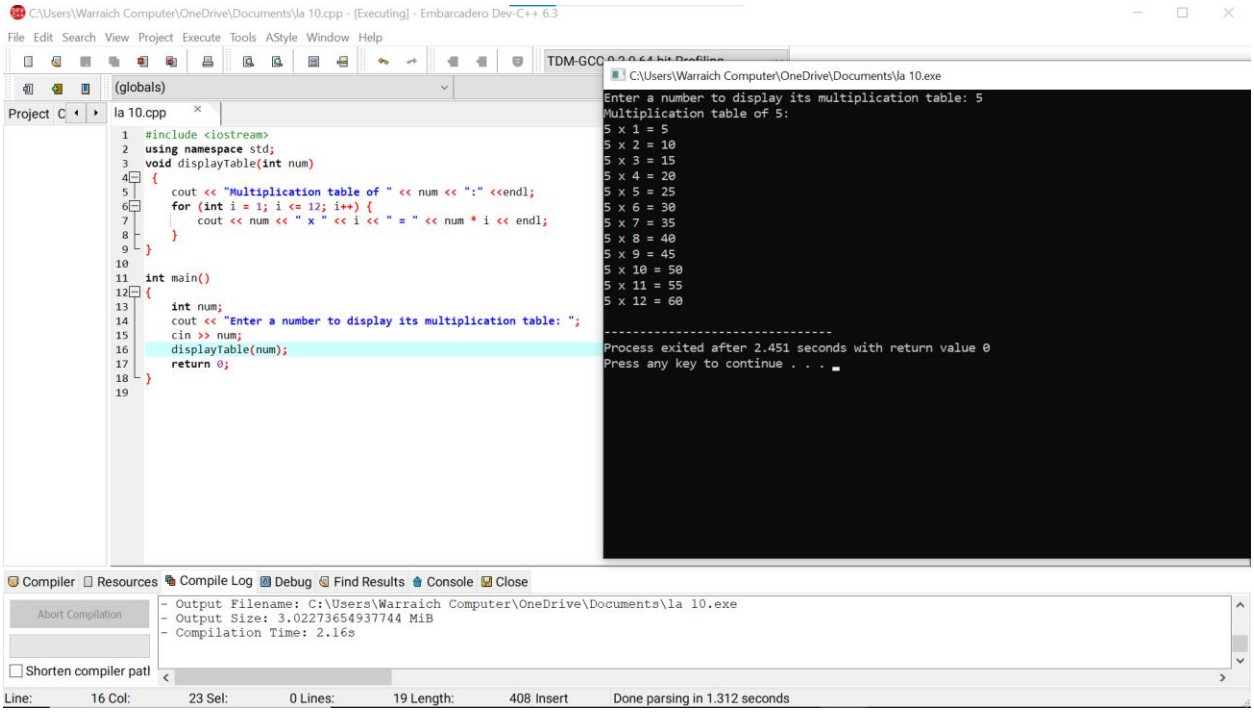
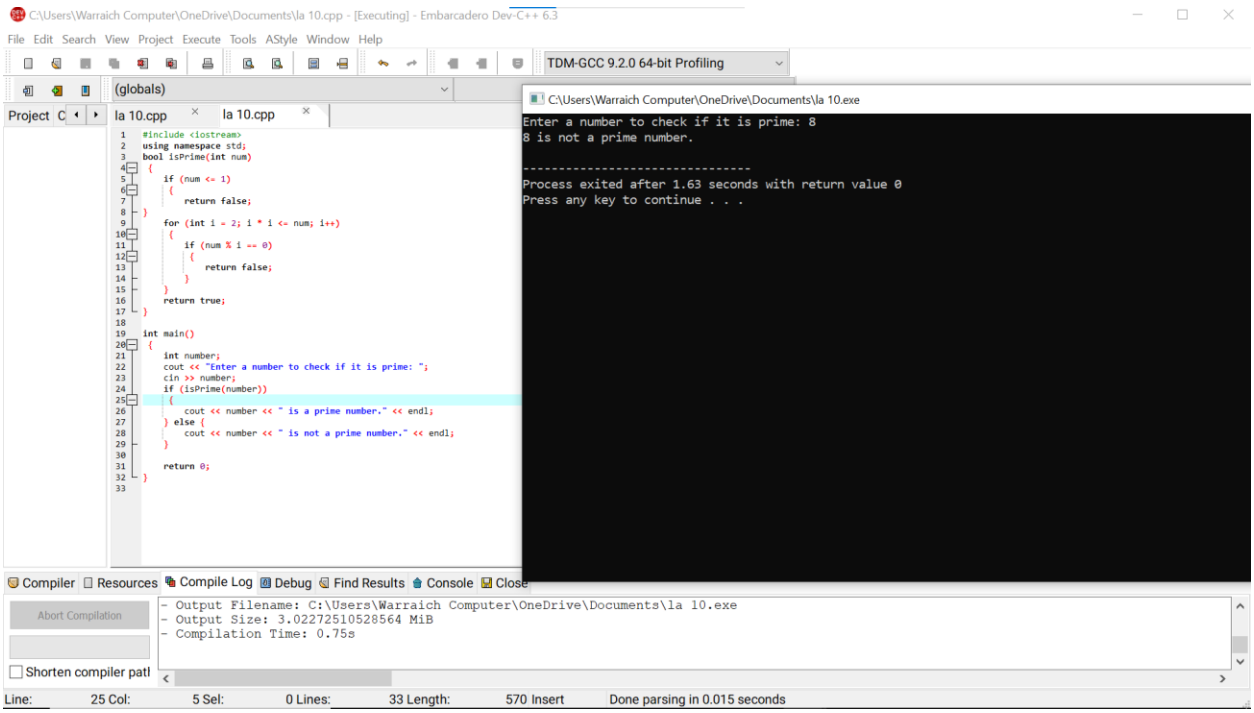
PROGRAMMING FUNDAMENTAL

LAB TASK

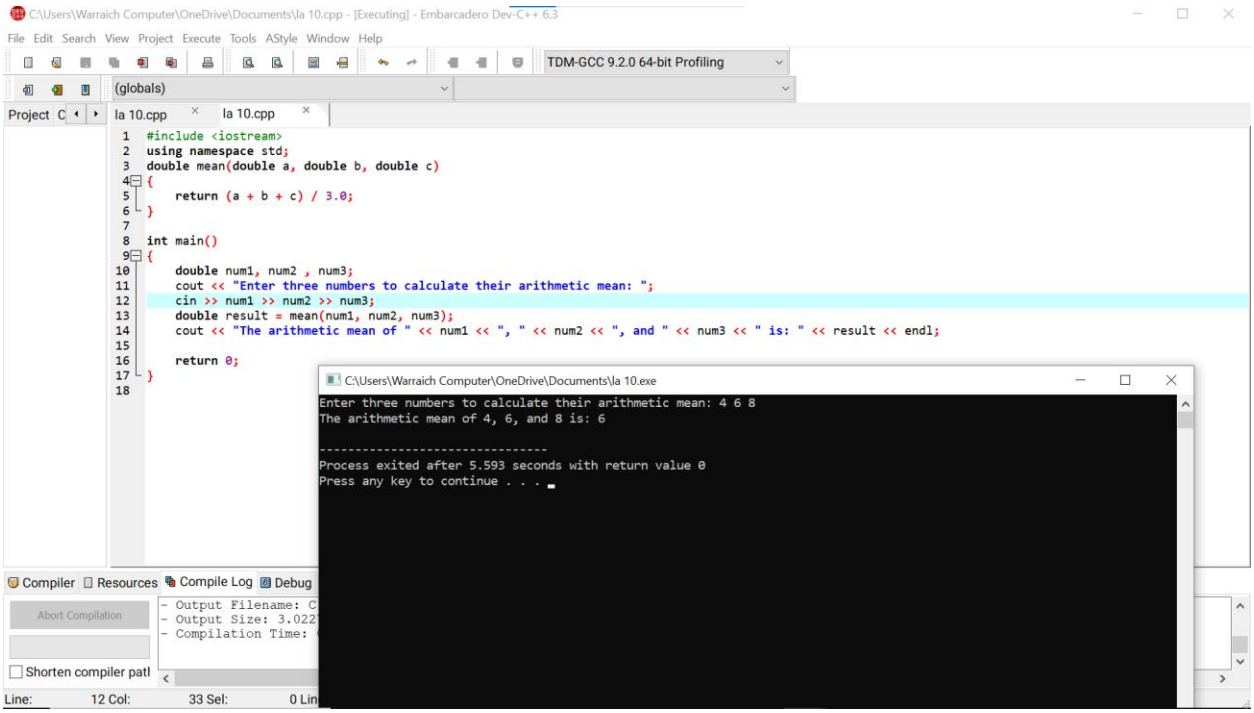
QUESTION 1



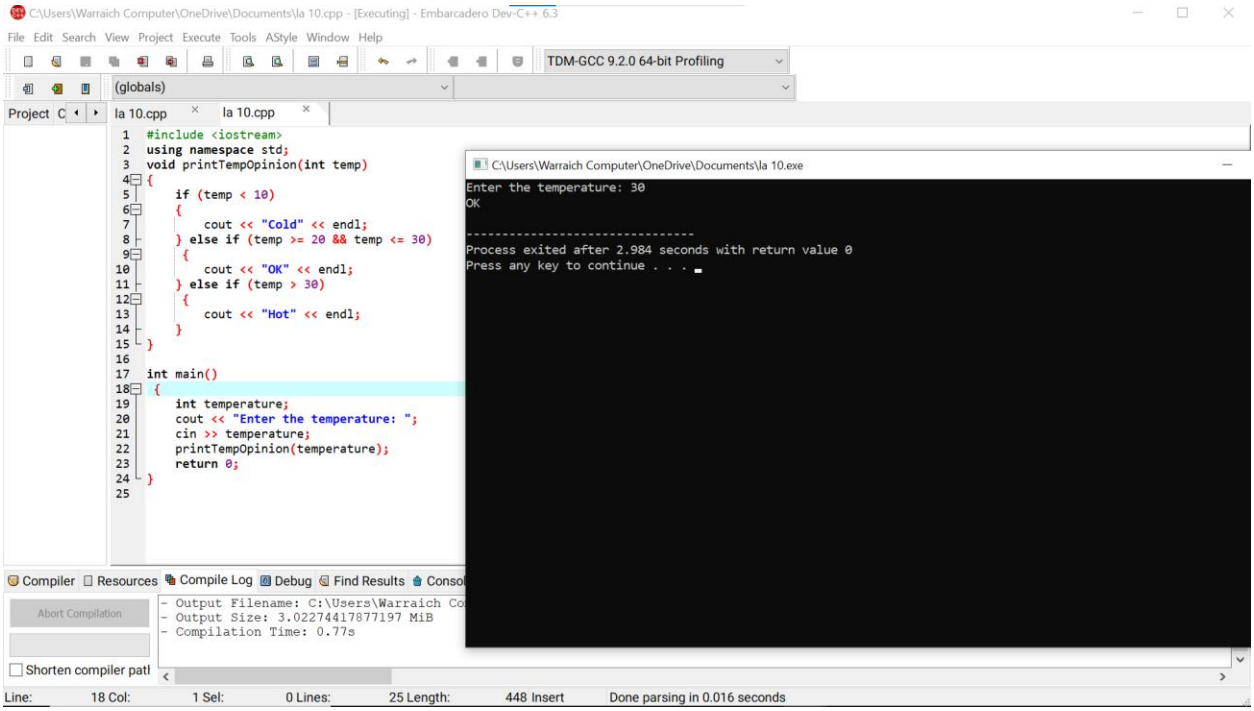
QUESTION 2



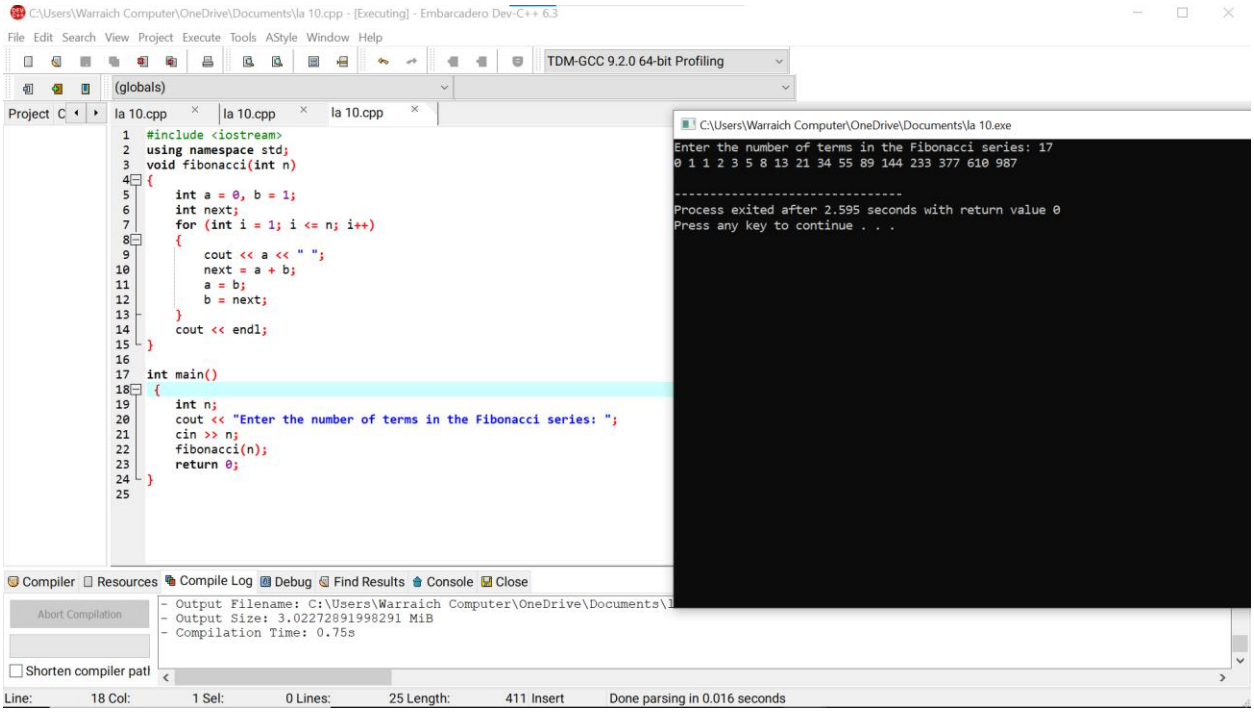
Question 3



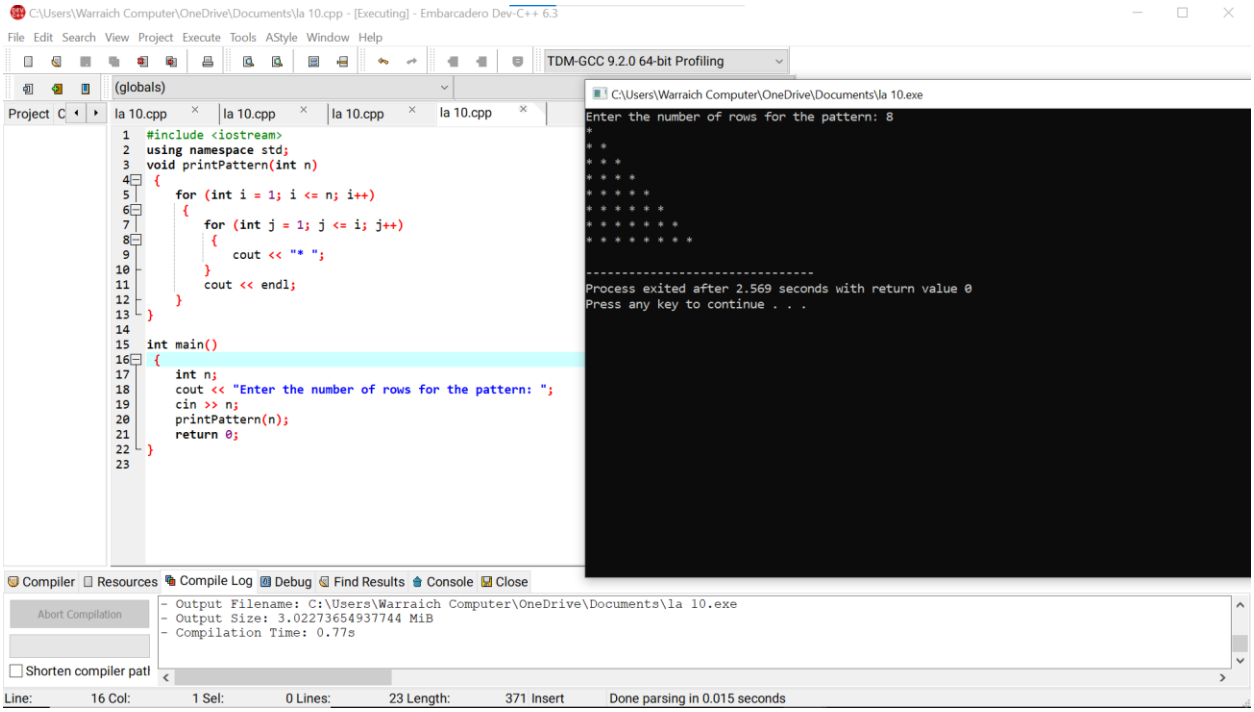
QUESTION 4


C:\Users\Warraich Computer\OneDrive\Documents\la 10.cpp - [Executing] - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Profiling
(globals)
Project C
la 10.cpp
la 10.cpp
1 #include <iostream>
2 using namespace std;
3 void printTempOpinion(int temp)
4 {
5 if (temp < 10)
6 {
7 cout << "Cold" << endl;
8 } else if (temp >= 20 && temp <= 30)
9 {
10 cout << "OK" << endl;
11 } else if (temp > 30)
12 {
13 cout << "Hot" << endl;
14 }
15 }
16
17 int main()
18 {
19 int temperature;
20 cout << "Enter the temperature: ";
21 cin >> temperature;
22 printTempOpinion(temperature);
23 return 0;
24 }
25
C:\Users\Warraich Computer\OneDrive\Documents\la 10.exe
Enter the temperature: 30
OK
Process exited after 2.984 seconds with return value 0
Press any key to continue . . .
Compiler Resources Compile Log Debug Find Results Consol
Abort Compilation
Shorten compiler patl
- Output Filename: C:\Users\Warraich Co
- Output Size: 3.02274417877197 MiB
- Compilation Time: 0.77s
Line: 18 Col: 1 Sel: 0 Lines: 25 Length: 448 Insert Done parsing in 0.016 seconds

QUESTION 5


C:\Users\Warraich Computer\OneDrive\Documents\la 10.cpp - [Executing] - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Profiling
(globals)
Project C
la 10.cpp
la 10.cpp
la 10.cpp
1 #include <iostream>
2 using namespace std;
3 void fibonacci(int n)
4 {
5 int a = 0, b = 1;
6 int next;
7 for (int i = 1; i <= n; i++)
8 {
9 cout << a << " ";
10 next = a + b;
11 a = b;
12 b = next;
13 }
14 cout << endl;
15 }
16
17 int main()
18 {
19 int n;
20 cout << "Enter the number of terms in the Fibonacci series: ";
21 cin >> n;
22 fibonacci(n);
23 return 0;
24 }
25
C:\Users\Warraich Computer\OneDrive\Documents\la 10.exe
Enter the number of terms in the Fibonacci series: 17
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987
Process exited after 2.595 seconds with return value 0
Press any key to continue . . .
Compiler Resources Compile Log Debug Find Results Console Close
Abort Compilation
Shorten compiler patl
- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\l
- Output Size: 3.02272891998291 MiB
- Compilation Time: 0.75s
Line: 18 Col: 1 Sel: 0 Lines: 25 Length: 411 Insert Done parsing in 0.016 seconds

Question 6


C:\Users\Warraich Computer\OneDrive\Documents\la 10.cpp - [Executing] - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Profiling
(globals)
Project
la 10.cpp
la 10.cpp
la 10.cpp
la 10.cpp
#include <iostream>
using namespace std;
void printPattern(int n)
{
for (int i = 1; i <= n; i++)
{
for (int j = 1; j <= i; j++)
{
cout << "* ";
}
cout << endl;
}
}
int main()
{
int n;
cout << "Enter the number of rows for the pattern: ";
cin >> n;
printPattern(n);
return 0;
}
C:\Users\Warraich Computer\OneDrive\Documents\la 10.exe
Enter the number of rows for the pattern: 8
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
* * * * * * * *

Process exited after 2.569 seconds with return value 0
Press any key to continue . . .
Compiler
Resources
Compile Log
Debug
Find Results
Console
Close
Abort Compilation
Shorten compiler path
- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\la 10.exe
- Output Size: 3.02273654937744 MiB
- Compilation Time: 0.77s
Line: 16 Col: 1 Sel: 0 Lines: 23 Length: 371 Insert
Done parsing in 0.015 seconds