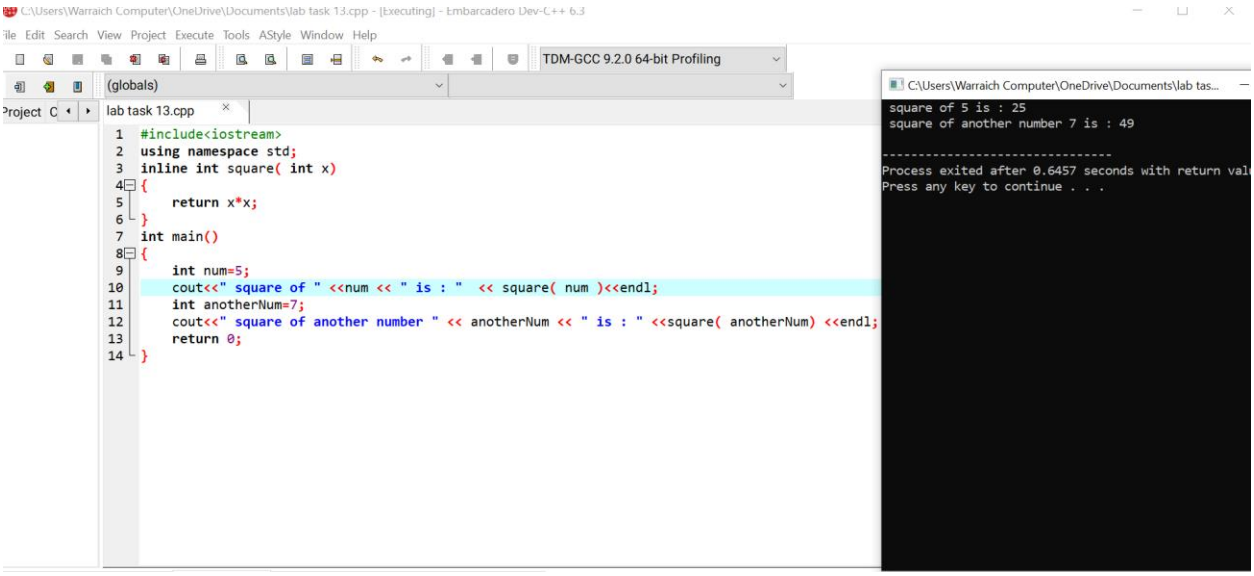
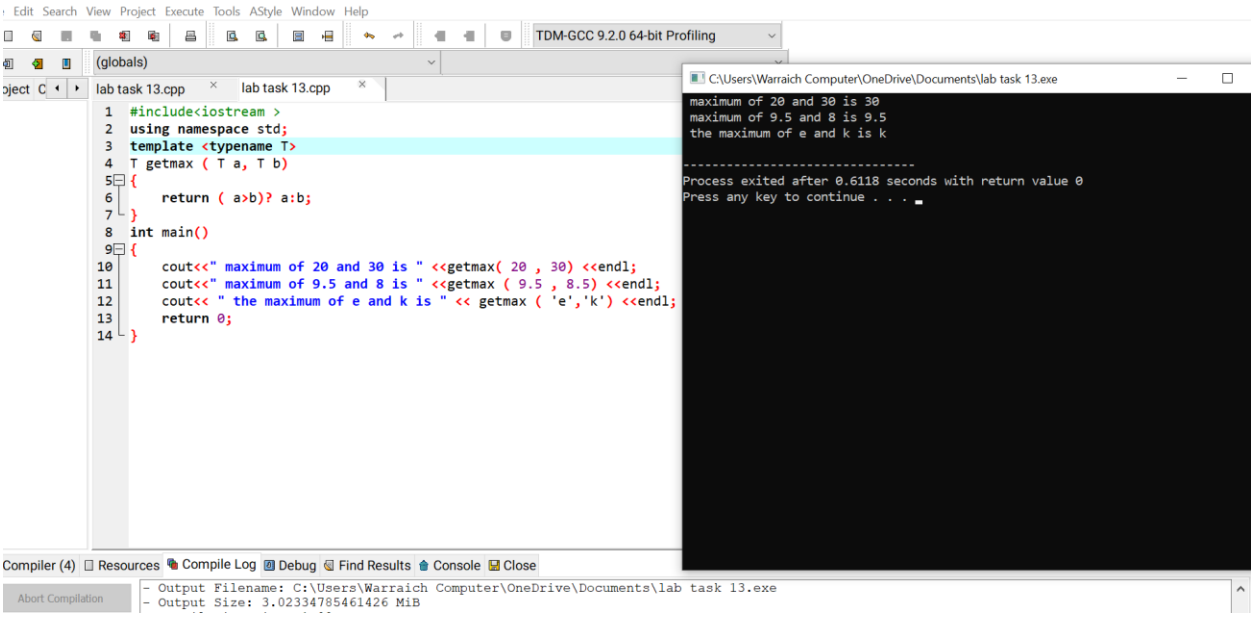
PROGRAMMING FUNDAMENTAL

TASK 13

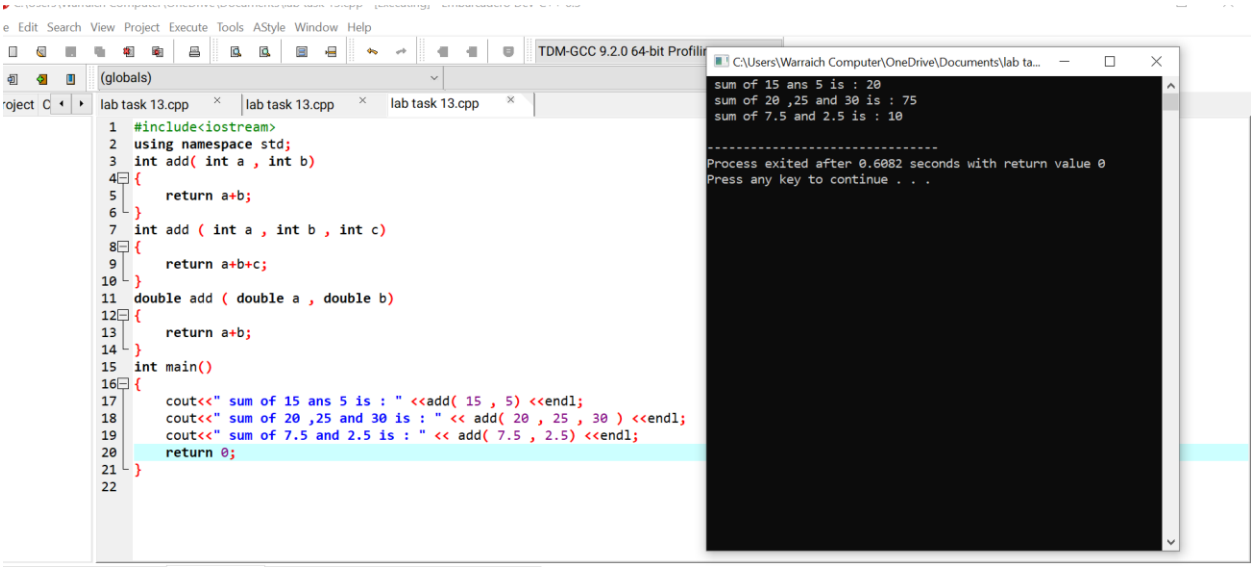
TASK 1



TASK 2



Task 3

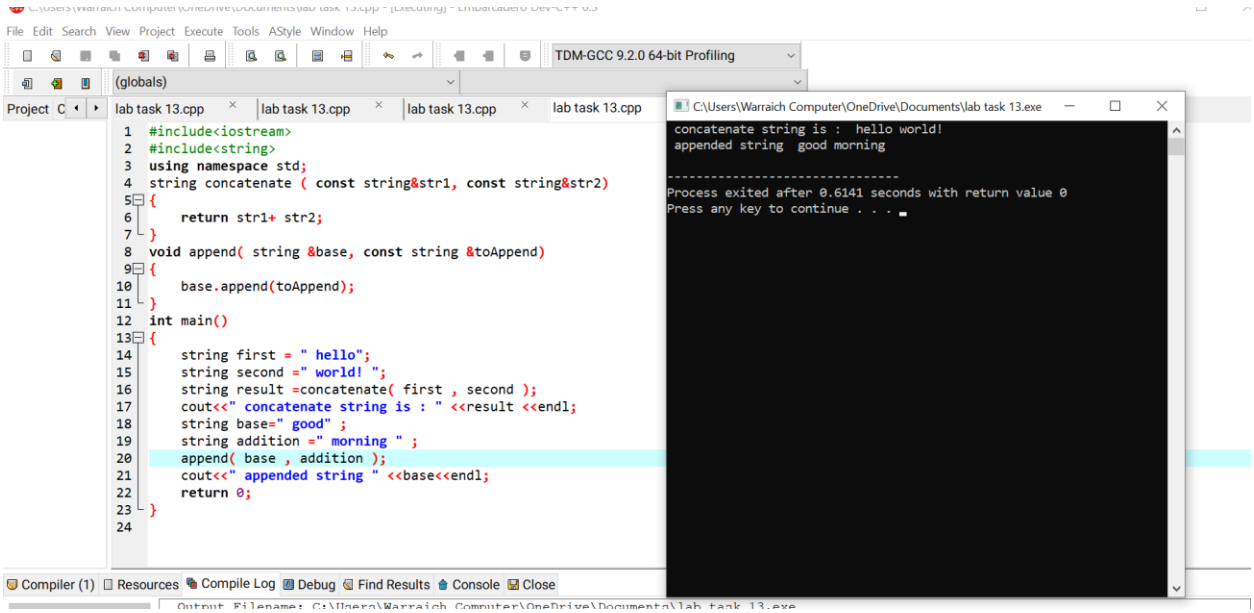


```
#include<iostream>
using namespace std;
int add( int a , int b)
{
    return a+b;
}
int add ( int a , int b , int c)
{
    return a+b+c;
}
double add ( double a , double b)
{
    return a+b;
}
int main()
{
    cout<<" sum of 15 ans 5 is : " <<add( 15 , 5) <<endl;
    cout<<" sum of 20 ,25 and 30 is : " << add( 20 , 25 , 30 ) <<endl;
    cout<<" sum of 7.5 and 2.5 is : " << add( 7.5 , 2.5) <<endl;
    return 0;
}
```

```
sum of 15 ans 5 is : 20
sum of 20 ,25 and 30 is : 75
sum of 7.5 and 2.5 is : 10

--------------------------------
Process exited after 0.6082 seconds with return value 0
Press any key to continue . . .
```

Task 4

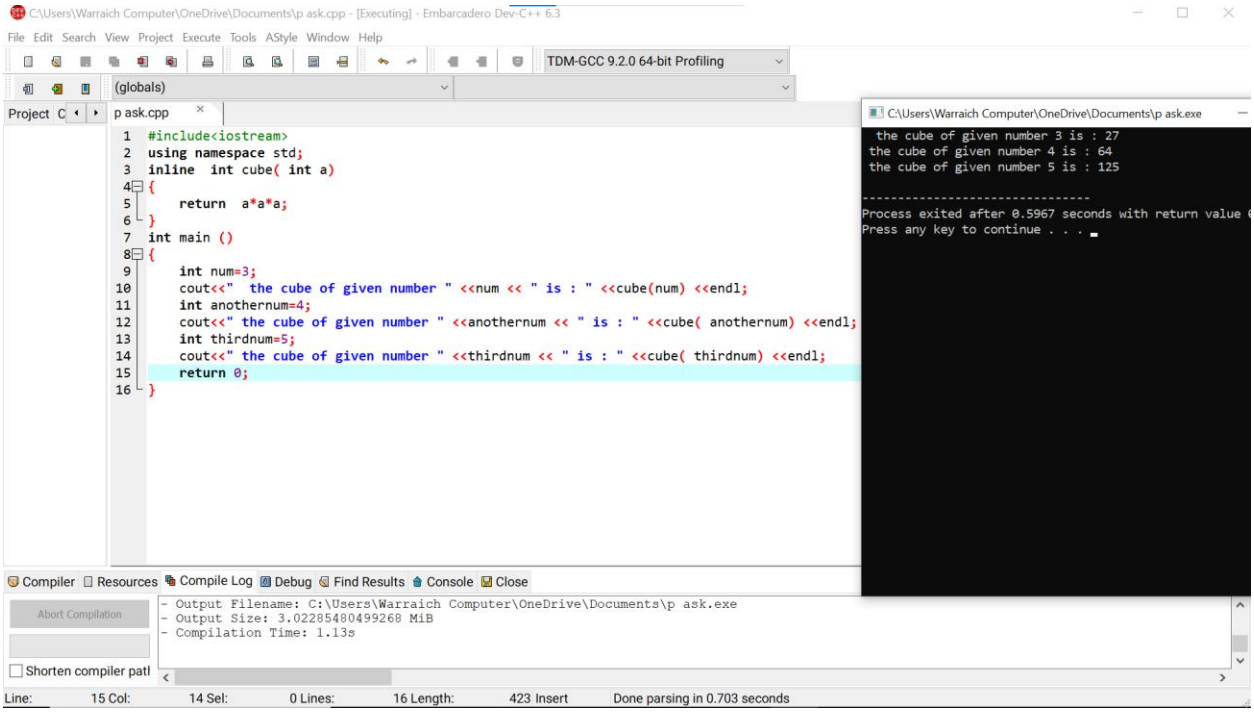


```
#include<iostream>
#include<string>
using namespace std;
string concatenate ( const string&str1, const string&str2)
{
    return str1+ str2;
}
void append( string &base, const string &toAppend)
{
    base.append(toAppend);
}
int main()
{
    string first = " hello";
    string second =" world! ";
    string result =concatenate( first , second );
    cout<<" concatenate string is : " <<result <<endl;
    string base=" good" ;
    string addition =" morning " ;
    append( base , addition );
    cout<<" appended string " <<base<<endl;
    return 0;
}
```

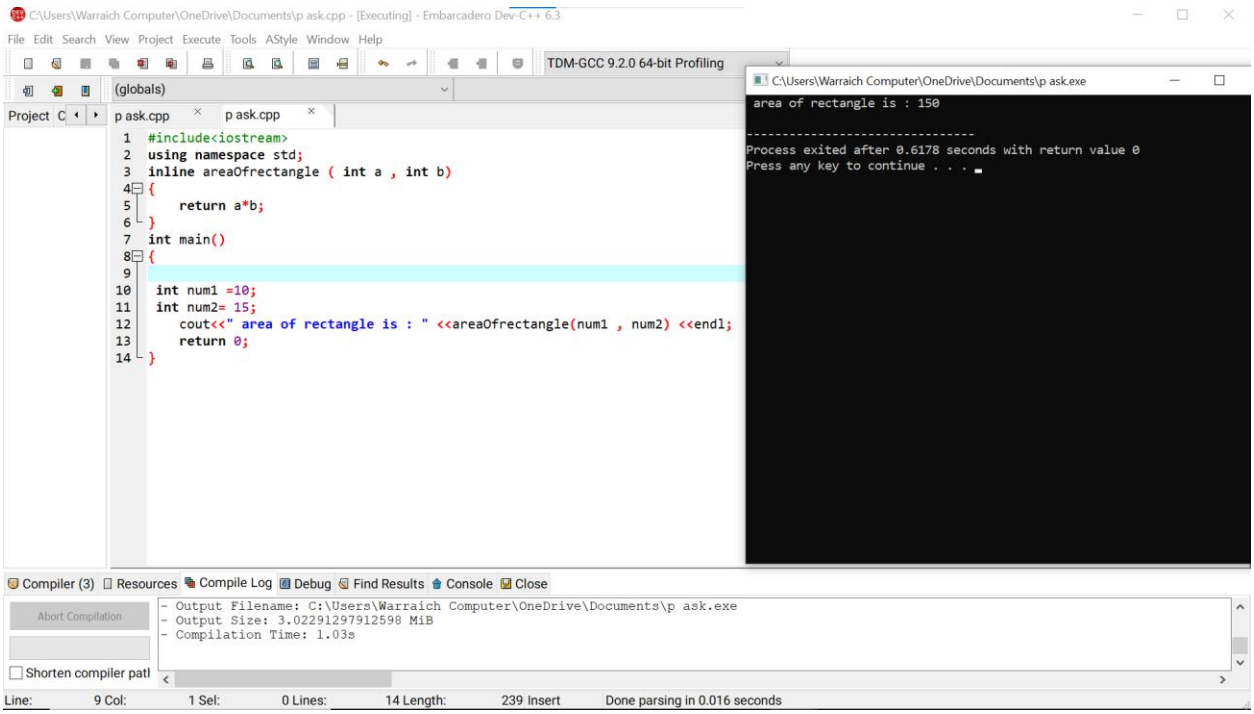
```
concatenate string is :  hello world!
appended string  good morning

--------------------------------
Process exited after 0.6141 seconds with return value 0
Press any key to continue . . .
```

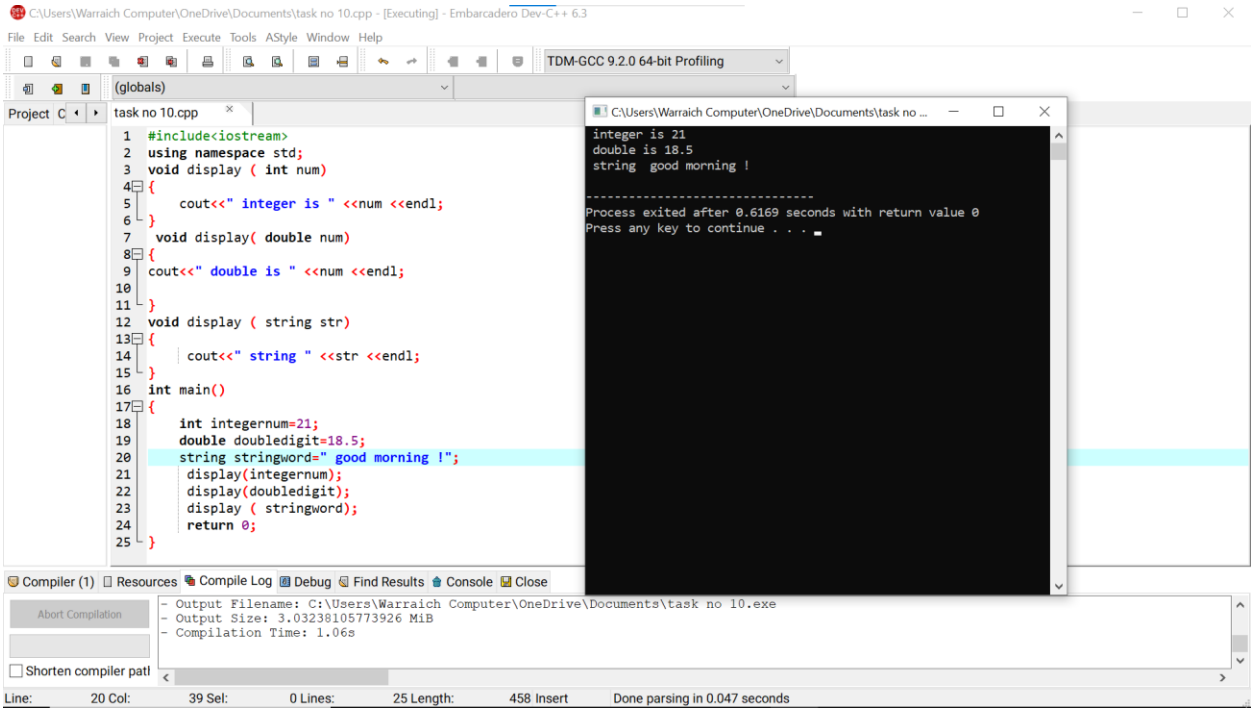
Task 5


C:\Users\Warraich Computer\OneDrive\Documents\p ask.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
p ask.cpp
1 #include<iostream>
2 using namespace std;
3 inline int cube(int a)
4 {
5 return a*a*a;
6 }
7 int main ()
8 {
9 int num=3;
10 cout<<" the cube of given number " <<num << " is : " <<cube(num) <<endl;
11 int anothernum=4;
12 cout<<" the cube of given number " <<anothernum << " is : " <<cube(anothernum) <<endl;
13 int thirdnum=5;
14 cout<<" the cube of given number " <<thirdnum << " is : " <<cube(thirdnum) <<endl;
15 return 0;
16 }
C:\Users\Warraich Computer\OneDrive\Documents\p ask.exe
the cube of given number 3 is : 27
the cube of given number 4 is : 64
the cube of given number 5 is : 125
Process exited after 0.5967 seconds with return value
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\p ask.exe
- Output Size: 3.02285480499268 MiB
- Compilation Time: 1.13s
Line: 15 Col: 14 Sel: 0 Lines: 16 Length: 423 Insert Done parsing in 0.703 seconds

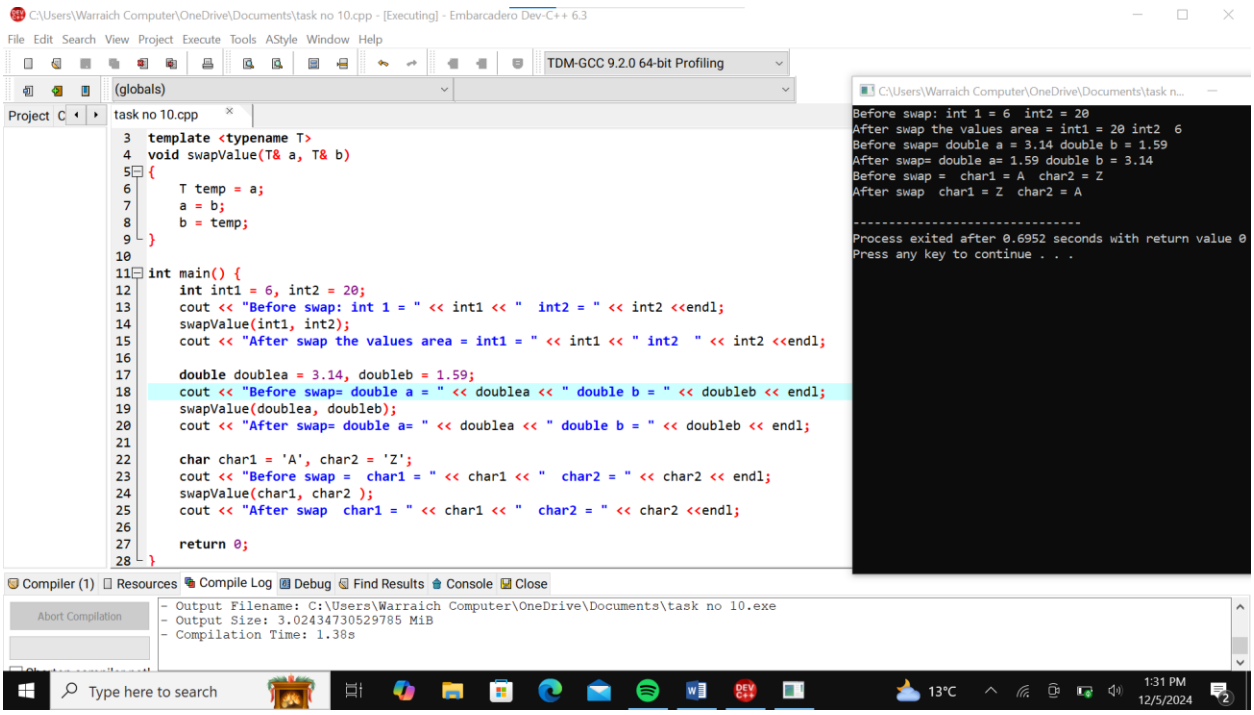
Task 6


C:\Users\Warraich Computer\OneDrive\Documents\p ask.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
p ask.cpp
p ask.cpp
1 #include<iostream>
2 using namespace std;
3 inline areaOfrectangle (int a , int b)
4 {
5 return a*b;
6 }
7 int main()
8 {
9
10 int num1 =10;
11 int num2= 15;
12 cout<<" area of rectangle is : " <<areaOfrectangle(num1 , num2) <<endl;
13 return 0;
14 }
C:\Users\Warraich Computer\OneDrive\Documents\p ask.exe
area of rectangle is : 150
Process exited after 0.6178 seconds with return value 0
Press any key to continue . . .
Compiler (3) Resources Compile Log Debug Find Results Console Close
Abort Compilation
Shorten compiler patl
- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\p ask.exe
- Output Size: 3.02291297912598 MiB
- Compilation Time: 1.03s
Line: 9 Col: 1 Sel: 0 Lines: 14 Length: 239 Insert Done parsing in 0.016 seconds

Task 7


C:\Users\Warraich Computer\OneDrive\Documents\task no 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
task no 10.cpp
1 #include<iostream>
2 using namespace std;
3 void display (int num)
4 {
5 cout<<" integer is " <<num <<endl;
6 }
7 void display(double num)
8 {
9 cout<<" double is " <<num <<endl;
10
11 }
12 void display (string str)
13 {
14 cout<<" string " <<str <<endl;
15 }
16 int main()
17 {
18 int integernum=21;
19 double doubledigit=18.5;
20 string stringword=" good morning !";
21 display(integernum);
22 display(doubledigit);
23 display (stringword);
24 return 0;
25 }
C:\Users\Warraich Computer\OneDrive\Documents\task no ...
integer is 21
double is 18.5
string good morning !
Process exited after 0.6169 seconds with return value 0
Press any key to continue . . .
Compiler (1) Resources Compile Log Debug Find Results Console Close
Abort Compilation
Shorten compiler path
- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\task no 10.exe
- Output Size: 3.03238105773926 MiB
- Compilation Time: 1.06s
Line: 20 Col: 39 Sel: 0 Lines: 25 Length: 458 Insert Done parsing in 0.047 seconds

Task 8


C:\Users\Warraich Computer\OneDrive\Documents\task no 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
task no 10.cpp
3 template <typename T>
4 void swapValue(T& a, T& b)
5 {
6 T temp = a;
7 a = b;
8 b = temp;
9 }
10
11 int main() {
12 int int1 = 6, int2 = 20;
13 cout << "Before swap: int 1 = " << int1 << " int2 = " << int2 <<endl;
14 swapValue(int1, int2);
15 cout << "After swap the values area = int1 = " << int1 << " int2 " << int2 <<endl;
16
17 double doublea = 3.14, doubleb = 1.59;
18 cout << "Before swap= double a = " << doublea << " double b = " << doubleb << endl;
19 swapValue(doublea, doubleb);
20 cout << "After swap= double a= " << doublea << " double b = " << doubleb << endl;
21
22 char char1 = 'A', char2 = 'Z';
23 cout << "Before swap = char1 = " << char1 << " char2 = " << char2 << endl;
24 swapValue(char1, char2);
25 cout << "After swap char1 = " << char1 << " char2 = " << char2 <<endl;
26
27 return 0;
28 }
C:\Users\Warraich Computer\OneDrive\Documents\task n...
Before swap: int 1 = 6 int2 = 20
After swap the values area = int1 = 20 int2 6
Before swap= double a = 3.14 double b = 1.59
After swap= double a= 1.59 double b = 3.14
Before swap = char1 = A char2 = Z
After swap char1 = Z char2 = A
Process exited after 0.6952 seconds with return value 0
Press any key to continue . . .
Compiler (1) Resources Compile Log Debug Find Results Console Close
Abort Compilation
- Output Filename: C:\Users\Warraich Computer\OneDrive\Documents\task no 10.exe
- Output Size: 3.02434730529785 MiB
- Compilation Time: 1.38s
Type here to search
13°C
1:31 PM
12/5/2024