File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

lab6_task1.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main(){
4        int sum;
5        for(int i=0; i<=100; i++)
6        {
7            sum=sum+i;
8        }
9        cout<<sum<<endl;
10
11
12
13       return 0;
14   }
```

C:\Users\ESHOP\Documents\PRACTICE_PROGR...

```
5050

----------------------------------
Process exited after 0.1896 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ESHOP\Documents\PRACTICE_PROGRAMMING_C++\lab6_task1.exe
- Output Size: 1.83208656311035 MiB
- Compilation Time: 0.88s
```

Line: 9   Col: 21   Sel: 0   Lines: 14   Length: 160   Insert   Done parsing in 0.422 seconds

Type here to search

3:50   38°C   12:53 PM   9/28/2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project | Classes | Debug

[*] lab6_task1.cpp   lab6_task2.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main() {
4        int exponent;
5        int base;
6        int result = 1;
7        int x = 1;
8
9        cout<<"Enter the base: ";
10       cin>>base;
11       cout<<"Enter the exponent: ";
12       cin>>exponent;
13
14       while(x <= exponent) {
15           result*=base;
16           x++;
17       }
18
19       cout<< "Answer is = " <<result<<endl;
20
21       return 0;
22   }
```

C:\Users\ESHOP\Documents\PRACTICE_PROGRA...

```
Enter the base: 7
Enter the exponent: 4
Answer is = 2401

----------------------------------
Process exited after 10.55 seconds with return value 0
Press any key to continue . . .
```
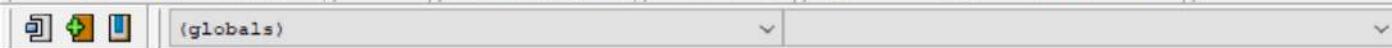
Compiler | Resources | Compile Log | Debug | Find Results | Close

Abort Compilation

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ESHOP\Documents\PRACTICE_PROGRAMMING_C++\lab6_task2.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 1.02s
```

Line: 15   Col: 16   Sel: 0   Lines: 22   Length: 396   Insert   Done parsing in 0.016 seconds

Type here to search

3:32   38°C   2:56 PM   9/28/2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

[*] lab6_task1.cpp   lab6_task2.cpp   lab6_task1new.cpp   lab6_task3.cpp

```cpp
1    #include <iostream>
2    using namespace std;
3    int main() {
4
5        int number;
6        cout<<"Enter a number for factorial calculation: ";
7        cin>>number;
8
9        int factorial = 1;
10       for (int i = 1; i <= number; i++) {
11       factorial *= i;
12       }
13
14       cout<<"The factorial of " << number << " is: " << factorial << endl;
15
16       return 0;
17   }
18
19
```

C:\Users\ESHOP\Documents\PRACTICE_PROGRAMMING_C...

```
Enter a number for factorial calculation: 4
The factorial of 4 is: 24

--------------------------------
Process exited after 2.2 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ESHOP\Documents\PRACTICE_PROGRAMMING_C++\lab6_task3.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.89s
```

Line: 17   Col: 2   Sel: 0   Lines: 19   Length: 349   Insert   Done parsing in 0.031 seconds

Type here to search

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

Project   Classes   Debug   lab6_task5.cpp

```cpp
#include <iostream>
using namespace std;
int main(){
    for(int a=1; a<=1; a++)
    {
        cout<<" *******"<<endl;
    }
    for(int b=1; b<=3; b++)
    {
        cout<<" *      *"<<endl;
    }
    for(int a=1; a<=1; a++)
    {
        cout<<" *******"<<endl;
    }


    return 0;
}
```

C:\Users\ESHOP\Documents\PRACTICE_PROGRAMMING_...

```
*******
*      *
*      *
*      *
*******

--------------------------------
Process exited after 0.04814 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ESHOP\Documents\PRACTICE_PROGRAMMING_C++\lab6_task5.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.86s
```

Abort Compilation

Shorten compiler paths

Line: 14   Col: 17   Sel: 0   Lines: 20   Length: 262   Insert   Done parsing in 0.031 seconds

Type here to search   4:07   38°C   3:48 PM   9/28/2024

```cpp
#include <iostream>
using namespace std;
int main() {
    int A, B, sum = 0;
    cout<<"Enter two numbers: ";
    cin>>A>>B;
    if(A > B) {
        A = A + B;
        B = A - B;
        A = A - B;
    }
    if(A % 2 != 0) {
        A = A + 1;
    }
    while(A <= B) {
        sum = sum + A;
        A = A + 2;
    }
    cout<<"Sum of even numbers: "<<sum<<endl;
    return 0;
}
```

Output

```
/tmp/ZXFq9iSXKN.o
Enter two numbers: 7
10
Sum of even numbers: 18


=== Code Execution Successful ===
```