



Fundamental of Programing

Lab Manual # 06

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Section :C



Lab Manual # 06

Lab Task:

1. Generate the Fibonacci sequence using loops.

```
#include<iostream>
```

```
using namespace std;
```

```
int main() {
```

```
int n;
```

```
cout << "Enter the number of terms = ";
```

```
cin >> n;
```

```
int A = 1, B = 1, C;
```

```
for (int i = 1; i <= n; i++) {
```

```
cout << A << " ";
```

```
C = A + B;
```

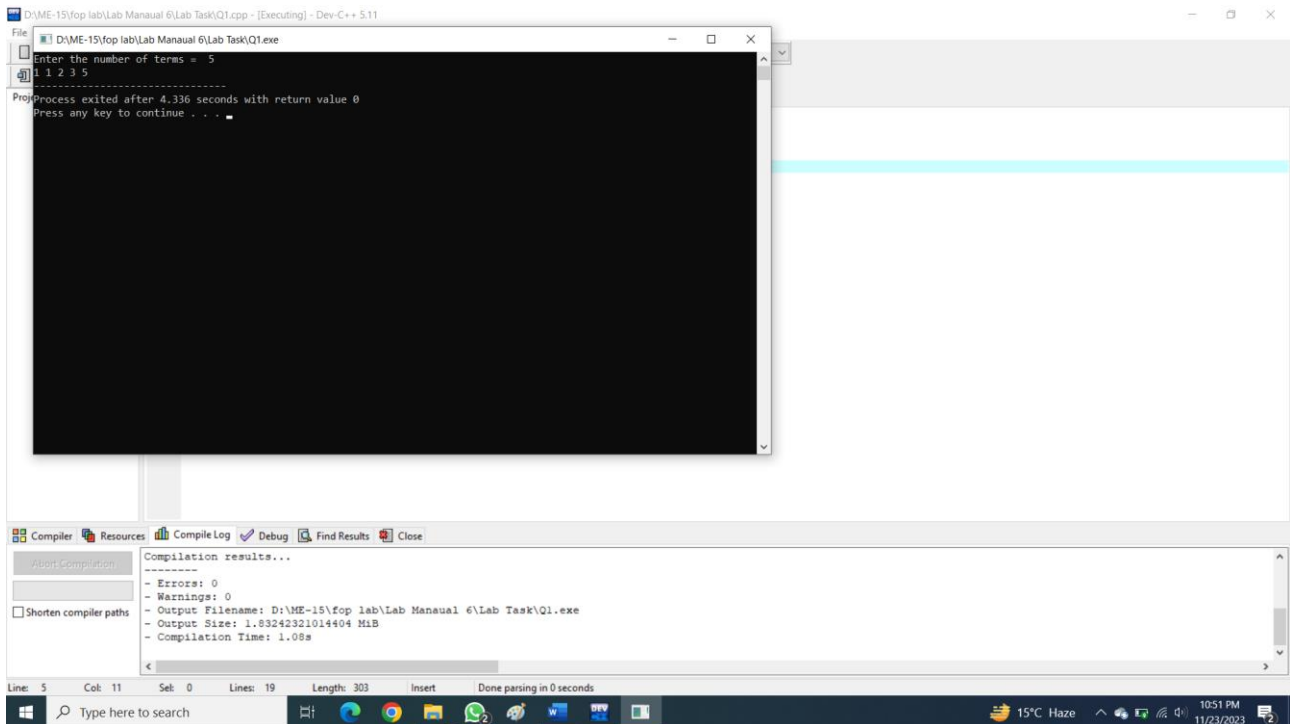
```
A = B;
```

```
B = C;
```

```
}
```

```
return 0;
```

```
}
```



2. Create Floyd triangle with loops.

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int n;
```

```
cout << "Enter n = ";
```

```
cin >> n;
```

```
int a = 1;
```

```
for( int i = 1; i <= n; i++){
```

```
for(int j = 1; j <= i; j++){
```

```
cout<< a <<" ";
```

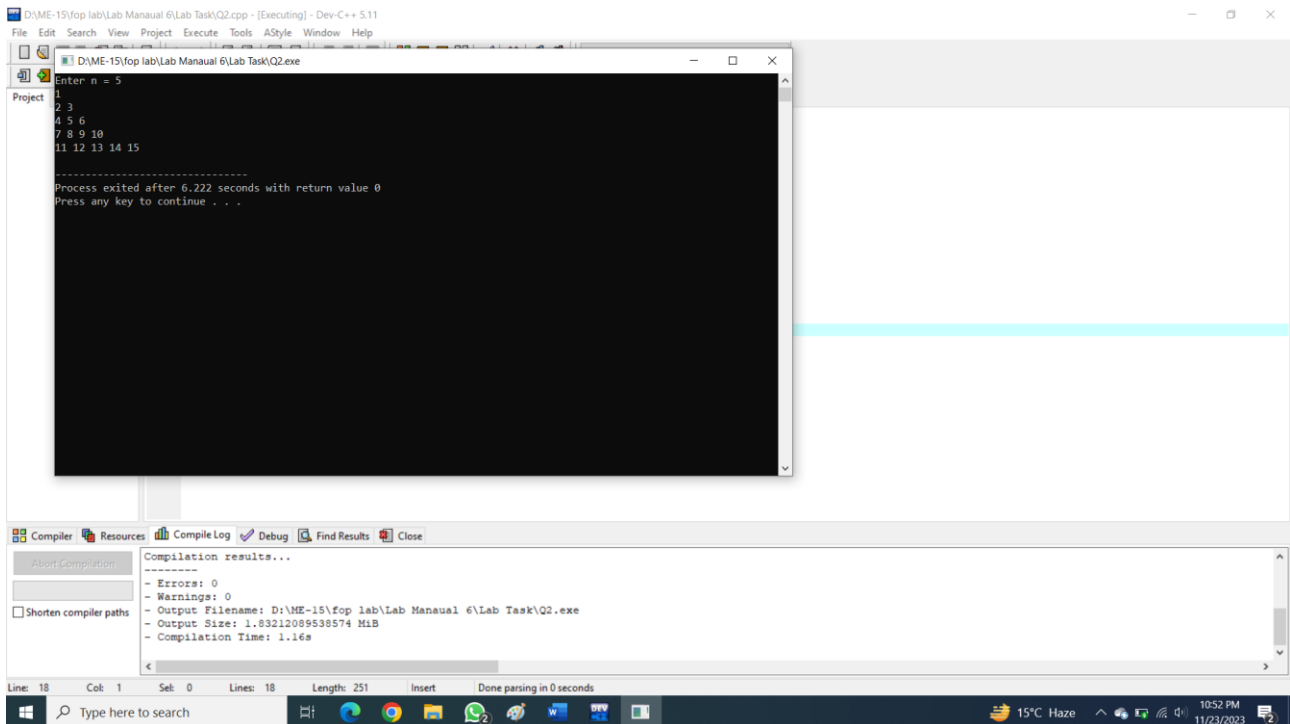
```
a = a+1;}
```

```
cout << endl;
```

```
}
```

```
return 0;
```

```
}
```



Home Task:

1. Write a program using break or continue statement that only adds prime numbers from 1 to 50 and display the sum on screen

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int ad = 0;
```

```
for ( int i = 2; i <= 50; i++ ) {
```

```
bool flag = true;
```

```
for (int j = 2; j <= i / 2 ; j++) {
```

```
if (i % j == 0) {
```

```
flag = false;
```

```
break;
```

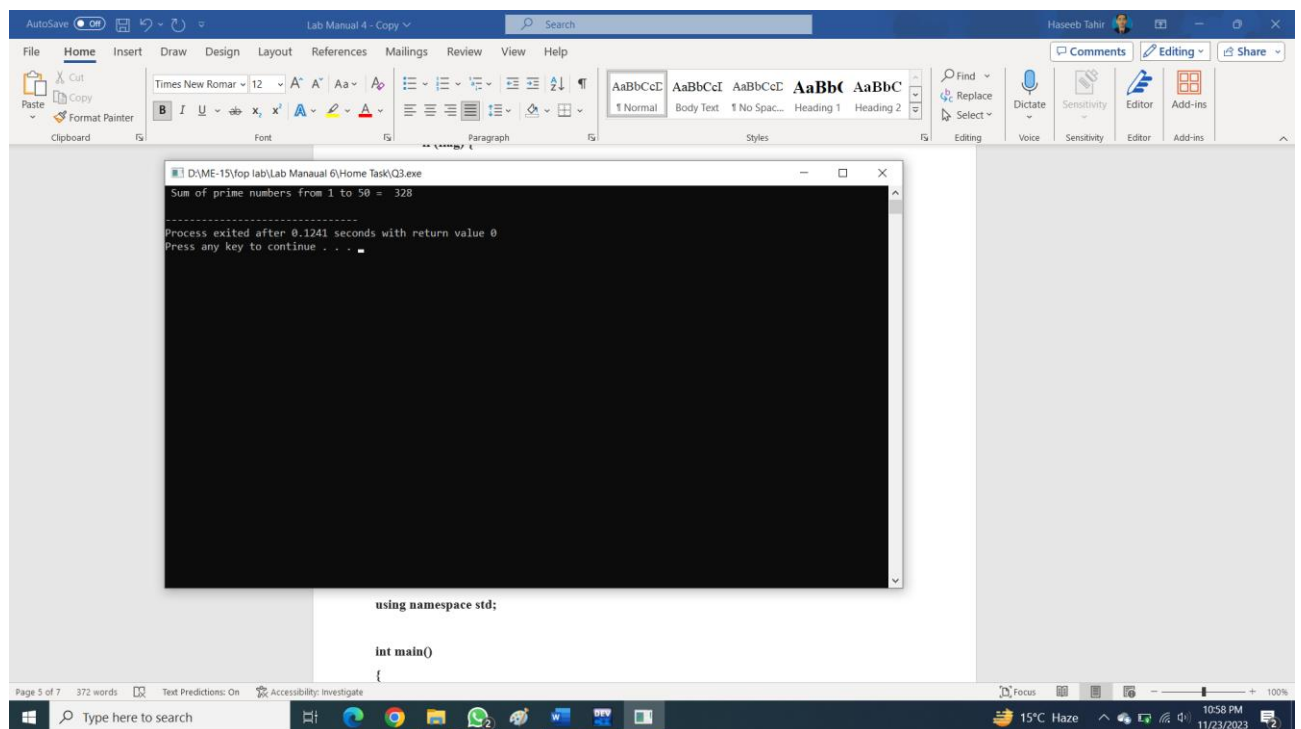


```
}  
}
```

```
if (flag) {  
    ad += i;  
}  
}
```

```
cout << " Sum of prime numbers from 1 to 50 = " << ad << endl;
```

```
return 0;  
}
```



2. Write a program in C++ to create the following pattern.

```
1  
12  
123  
1234
```



12345

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int n = 5;
```

```
for(int i = 1; i <= n; i++)
```

```
{
```

```
for(int j = 1; j <= i; j++)
```

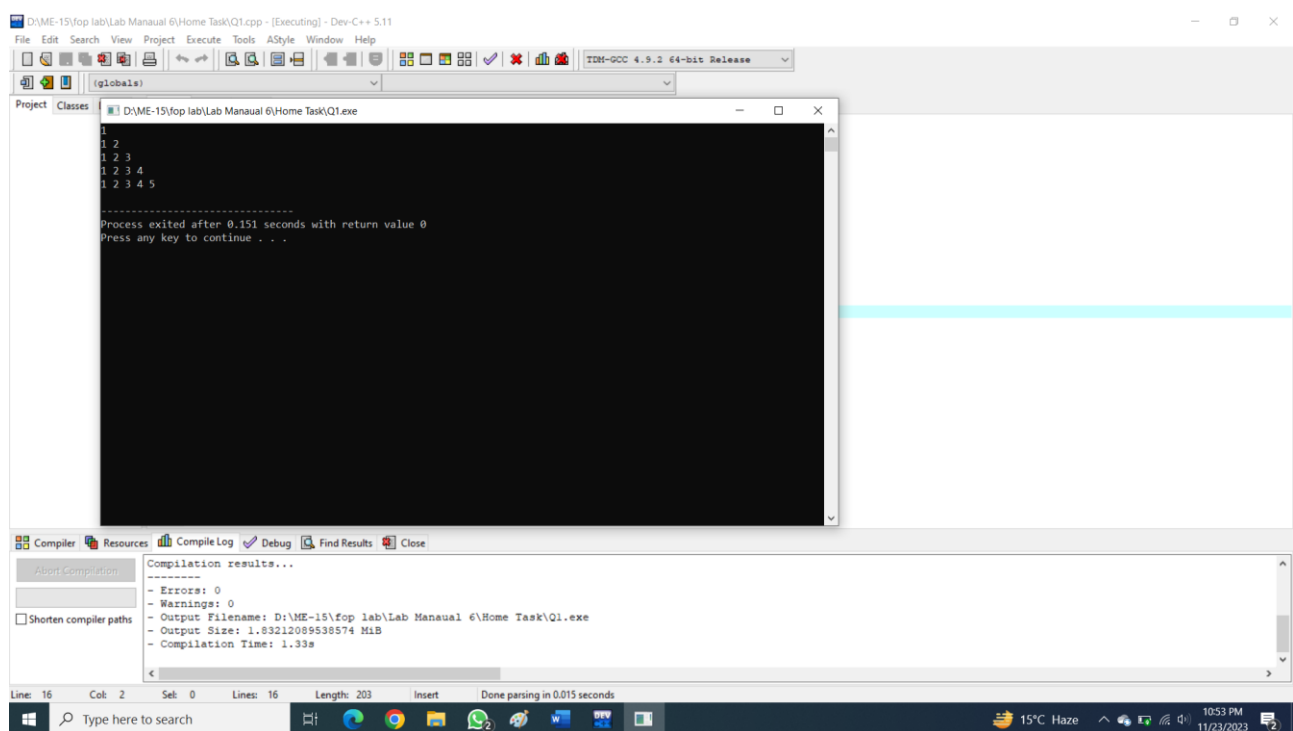
```
cout<<j<<" ";
```

```
cout<<endl;
```

```
}
```

```
return 0;
```

```
}
```





3. Write a C++ program to print:

22

444

666666

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
int n = 6;
```

```
for( int i = 1; i <= n; i +=1 )
```

```
{
```

```
for( int j = 1; j <= i; j++ )
```

```
if( i%2 == 0){
```

```
cout << i << " ";
```

```
}
```

```
cout<<endl;
```

```
}
```

```
return 0;
```

```
}
```



D:\ME-15\top lab\Lab Manual 6\Home Task\Q2.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TM-GCC 4.9.2 64-bit Release

(globals)

Project Classes

D:\ME-15\top lab\Lab Manual 6\Home Task\Q2.exe

```
2 2
4 4 4 4
6 6 6 6 6 6
.....
Process exited after 0.1943 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: D:\ME-15\top lab\Lab Manual 6\Home Task\Q2.exe
- Output Size: 1.83212089538574 MiB
- Compilation Time: 1.24s

Line: 18 Col: 2 Sel: 0 Lines: 18 Length: 240 Insert Done parsing in 0.015 seconds

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