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SUBJECT: PROGRAMMING FUNDAMENTALS   COURSE: CYBER SECURITY

1.


```cpp
#include<iostream>
using namespace std;
int main()
{

 for(int i=1;i<=5;i++)
 {
 for(int j=1;j<=5;j++)
 {
 cout<<"*";
 }
 cout<<endl;
 }
}
```

2.


```cpp
#include<iostream>
using namespace std;
int main()
{

 for(int i=1;i<=5;i++)
 {
 for(int j=1;j<=5;j++)
 {
 cout<<j;
 }
 cout<<endl;
 }
}
```

3.

(globals)

Project | Classes | nested for.cpp × | for loop 22.cpp × | forested for 22.cpp × | for 33.cpp × | nested for 5.cpp × | for loop 6.cpp × | nested for 7.cpp ×

```cpp
1   #include<iostream>
2   using namespace std;
3   int main()
4   {
5   for(char i='a';i<='e';i++)
6   {
7   for(char j='a';j<='e';j++)
8   {
9   cout<<j;
10  }
11  cout<<endl;
12  }
13  }
```

C:\Users\asher imtiaz\OneDrive\Desktop\forested for 22.exe

```
abcde
abcde
abcde
abcde
abcde
--------------------------------
Process exited after 0.164 seconds with return value 0
Press any key to continue . . .
```

Compiler (1) | Resources | Compile Log | Debug | Find Results | Console | Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\fo
- Output Size: 2.2501974105835 MiB
- Compilation Time: 1.45s
```
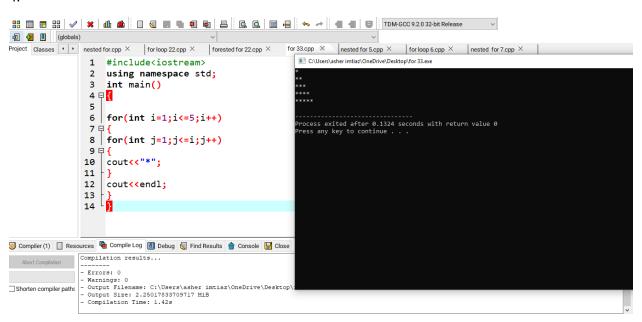
4.

(globals)

Project | Classes | nested for.cpp × | for loop 22.cpp × | forested for 22.cpp × | for 33.cpp × | nested for 5.cpp × | for loop 6.cpp × | nested for 7.cpp ×

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

C:\Users\asher imtiaz\OneDrive\Desktop\for 33.exe

```
*
**
***
****
*****
--------------------------------
Process exited after 0.1324 seconds with return value 0
Press any key to continue . . .
```

Compiler (1) | Resources | Compile Log | Debug | Find Results | Console | Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\
- Output Size: 2.25017833709717 MiB
- Compilation Time: 1.42s
```
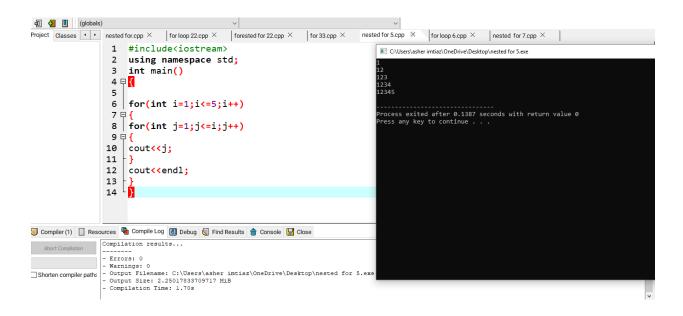
5.

Project Classes   nested for.cpp ×   for loop 22.cpp ×   forested for 22.cpp ×   for 33.cpp ×   nested for 5.cpp ×   for loop 6.cpp ×   nested for 7.cpp ×

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

C:\Users\asher imtiaz\OneDrive\Desktop\nested for 5.exe

```
1
12
123
1234
12345

--------------------------------
Process exited after 0.1387 seconds with return value 0
Press any key to continue . . .
```

Compiler (1)   Resources   Compile Log   Debug   Find Results   Console   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\nested for 5.exe
- Output Size: 2.25017833709717 MiB
- Compilation Time: 1.70s
```

6.

TDM-GCC 9.2.0 32-bit Release

Project Classes   nested for.cpp ×   for loop 22.cpp ×   forested for 22.cpp ×   for 33.cpp ×   nested for 5.cpp ×   for loop 6.cpp ×   nested for 7.cpp ×

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

C:\Users\asher imtiaz\OneDrive\Desktop\for loop 6.exe

```
1
11
111
1111
11111

--------------------------------
Process exited after 0.15 seconds with return value 0
Press any key to continue . . .
```

Compiler (1)   Resources   Compile Log   Debug   Find Results   Console   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\fo...
- Output Size: 2.25017833709717 MiB
- Compilation Time: 1.44s
```

7.

Project | Classes | nested for.cpp | for loop 22.cpp | forested for 22.cpp | for 33.cpp

C:\Users\asher imtiaz\OneDrive\Desktop\nested for 7.exe

```
a
ab
abc
abcd
abcde
```

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5  for(char i='a';i<='e';i++)
6  {
7  for(char j='a';j<=i;j++)
8  {
9  cout<<j;
10 }
11 cout<<endl;
12 }
13 }
```

```
------------------------------
Process exited after 0.1555 seconds with return value 0
Press any key to continue . . .
```

Compiler (1) | Resources | Compile Log | Debug | Find Results | Console | Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asher imtiaz\OneDrive\Desktop\nested for 7.exe
- Output Size: 2.25017833709717 MiB
- Compilation Time: 1.45s
```