

C++ PROGRAMMING



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Sample Program

```
//Sample Program
// Comments here

#include <iostream>
using namespace std;

int main( )
{
    cout << "Hello, World!";
    cin.get( );

    return 0;
}
```

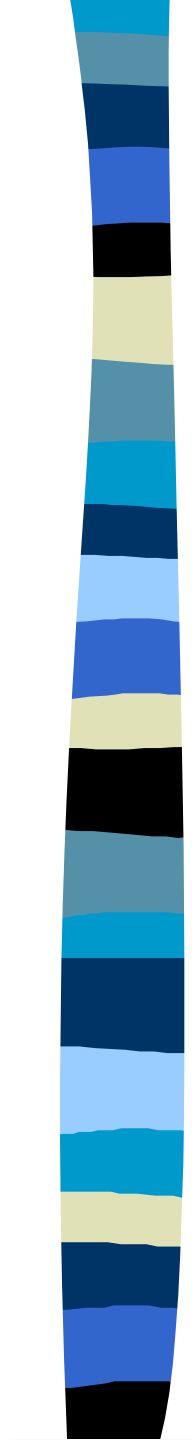




C++ Basics

- Every C++ program should have the following lines:
using namespace std;
int main ()
- C++ statements should reside between { and }.
- The last statement should be **return 0;**
- For I/O purpose the following statement should be present **#include <iostream>**
- Use **//** to insert comments as part of your documentation.

C++ General Format



```
//General Format
//Date
//Description of the Program
//
#include <iostream>

using namespace std;
int main( )
{
    //Supply your own declaration statements
    .
    .
    cin.get( );
    return 0;
}
```

Predict the Output

//What is the output?

```
#include <iostream>
```

```
using namespace std;
```

```
int main( )
```

```
{
```

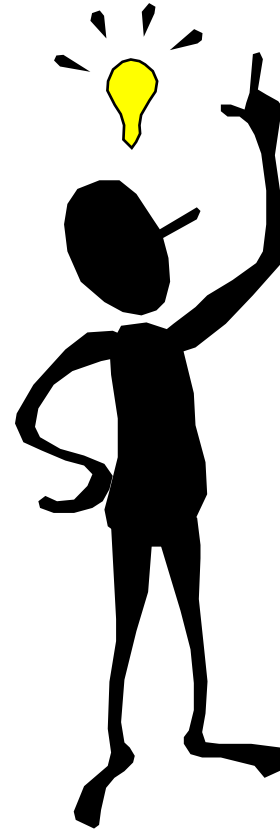
```
    cout << "Hello, World!";
```

```
    cout<<"My first program!";
```

```
    cin.get( );
```

```
    return 0;
```

```
}
```



Predict the Output 2

```
//What is the output?
```

```
// New Lines With endl
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main( )
```

```
{
```

```
    cout << "Hello, World!" <<endl;
```

```
    cout<<"My first program!"<<endl;
```

```
    cin.get( );
```

```
    return 0;
```

```
}
```



Input and Output Objects

common **input** → cin
common **output** → cout

Format:

```
cout << expression-1 << expression-2 ...;
```

Semicolon is used to terminate the statement.

Example:

```
cout << "Have a nice day." << endl;
```



How To Make a Program Pause

- The command:
`cin.get();`
will wait for the user to press any key on the keyboard.
- It is usually good to have a `cout` statement preceding this so the user knows why the program is stopping (user friendly).



Sample Program Example

```
//SampleProgram.cpp
```

```
// New Lines With endl – this is an L not a 1 (one)
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main( )
```

```
{
```

```
    cout << “Hello, World!” << endl;
```

```
    cout << “My first program!” << endl;
```

```
    cout<<endl<<endl<<endl;
```

```
    cout << “Press any key to continue...”<< endl;
```

```
    cin.get( );
```

```
    return 0;
```

```
}
```



Program 2A

- Sample output for program 2A
- [program2A.cpp](#)

- [HelloWorld Java C++ Program](#)