C++ PROGRAMMING

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Sample Program

```
//Sample Program
// Comments here
#include <iostream.h>
#include <conio.h>
int main()
   cout << "Hello, World!";
   getch();
   return 0;
```



C++ Basics

- Every C++ program should have the following line:
- 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.h>
- Use // to insert comments as part of your documentation.

C++ General Format

```
//General Format
//Date
//Description of the Program
#include <iostream.h>
#include <conio.h>
int main()
  //Supply your own declaration statements
  getch();
  return 0;
```

Predict the Output

```
//What is the output?
#include <iostream.h>
#include <conio.h>
int main()
{
   cout << "Hello, World!";
   cout << "My first program!";
   getch();
   return 0;
```

Predict the Output 2

```
//What is the output?
// New Lines With endl
#include <iostream.h>
#include <conio.h>
int main()
   cout << "Hello, World!" << endl;
   cout << "My first program!" << endl;
   getch();
   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: getch(); will wait for the user to press any key on the keyboard.
- You must have #include <conio.h> to make this work.
- It is usually good to have a cout statement preceding this so the user knows why the program is stopping (user friendly).

Clear Screen

- The command: clrscr(); will clear all text from the text screen.
- You must have #include <conio.h> to make this work.

Delay Command

- The command: delay (100); will make the program wait for 100 milliseconds before proceeding with the next command.
- Delay time is measured in milliseconds, therefore, a delay of 1000 milliseconds equals 1 second.
- You must have #include<dos.h> in order for this to work.

Delay Time Constants

- When using the delay command, it is best to use a constant. const int DELAY_TIME = 100;
- This must occur AFTER the #includes and BEFORE int main().
- Then use the command delay (DELAY_TIME);

Sample Program Example

```
//SampleProgram.cpp
// New Lines With endl
#include <iostream.h>
#include <conjo.h>
int main()
      cout << "Hello, World!" << endl;
      cout << "My first program!" << endl;
      cout << "Press any key to continue..." << endl;
      getch();
      return 0;
```

Program 2A

- Sample output for program 2A
- program2A.cpp

HelloWorld Java C++ Program