**Getting Started with Microsoft Visual J++**

This handout describes how to use Visual J++ in the Rm B112 lab. The instructions are applicable to your home machine as well, but the directory you store your program in will be different.

* **Preliminaries:**
  + **"Click on"** means move the mouse cursor over the item and press and release the left mouse button.
  + Similarly **"Right click on"** means move the cursor over the item and press and release the right mouse button. The right mouse button usually brings up a menu of properties for the selected item.
  + **"Click and hold"** means hold the left mouse button down while you drag the mouse. For example "Click and hold on A->B" means move the mouse to A, hold down the left mouse button while dragging the mouse to B, then release.
  + **Do not double click (two quick left mouse presses) unless explicitly indicated.**
  + To access items through a menu (e.g. the File menu appearing on the top bar of the workspace), left click on the menu item. A pull-down menu will appear. Move the cursor over the action you want (e.g. New Project) and left click. In the handout we will describe this sequence as "Select the New Project option on the File menu".
* **Starting J++ and creating a HelloWorld console application:**
  + Click on the Windows START button at the bottom left hand corner of the display.
  + Move mouse to Programs->Microsoft Visual J++ 6.0->Microsoft VisualJ++ 6.0. Click on the last item. The J++ window should appear.
  + A New Project window should appear. If it isn't there, select the New Project option on the File menu (i.e. go the top J++ menu bar and click to select File->New Project).
  + In the New Project window:
    - In the left window under Visual J++ Projects click on Applications
    - In the right window click on Console Application.
    - In the dialog window that appears:
      * Change the Name: from Project1 to HelloWorld.
      * Change the Location: to C:\J++\HelloWorld
      * Click on the OPEN button at the bottom.
    - You will see several windows in the workspace. Your project list should appear in the upper right menu.
* **Editing the HelloWorld project:**
  + In the upper right window (Project Explorer), click on the boxed + in front of HelloWorld to open a listing of the files that are part of the HelloWorld application. You should just see Class1.java. You will want this file to be called HelloWorld.java.
  + Right click on Class1.java and click on the Rename option on the drop down menu. Type HelloWorld.java. This should replace Class1.java. Click on HelloWorld above or somewhere else for the change to take effect.
  + Right click on the newly named HelloWorld.java and click on View Code on the drop down menu. The current code for HelloWorld.java should appear in your workspace.
  + Notice that Class1 is underlined in the code. Replace Class1 with HelloWorld. (In Java the file name and the class name have to be the same.)
  + Replace the line that reads
  + // TODO: Add initialization code here

with the line

System.out.println("Hello world");

* + Save your changes by selecting the Save All option on the File menu.
* **Building the HelloWorld application:**
  + Before you build your project for the first time, you will need to set some project properties. Click on Project on the top menu bar. A HelloWorld Properties dialog will appear.
    - Select the Launch tab.
    - Select the Default button.
    - Unselect the Launch as console application option.
    - Click on OK.
  + Each time you make a change you need to *build* your application. Select the Build option on the Build menu. If you made any errors, you will see error messages in the bottom window. The cursor will be at the location of the first error.
  + Correct errors and build until your project builds correctly.
* **Running your program:**
  + Bring up an output window by clicking on View on the top menu bar. Move the cursor to Other Windows and pull down its menu. Select the Output option. This will bring up an Output window. The window will stay up until you close the application or close the window.
  + Run the program by selecting the Start option on the Debug menu. The output will appear in the program output window.
* **Printing your source and output:**
  + Click on the window whose contents you want to print. The window bar at the top should be blue rather than gray.
  + Select the Print option on the File menu. Your printout should appear on the printer in the entry room of the lab.
* **Exiting and reentering:**
  + Be sure to save your application before exiting. (Select the Save All option on the File menu.)
  + Select the Exit option on the File menu to exit.
  + When you re-enter J++, you can get a previous application through the Recent tab on the New Project dialog. Alternatively you can open a project through the File menu.
* **Redirecting console output for HelloWorld to a disk file:**  
  If you want to redirect program output to a disk file, Select the HelloWorld Properties item at the bottom of the Project menu.
  + Under the Launch options, click on Custom.
  + The Programs box should read JView.exe.
  + The Arguments box should read
  + /p/cp:p "" HelloWorld > c:/j++/HelloWorld/hello.out

to save the output in a hello.out file in the project directory.

**To make the output pause before returning to the Developer Studio, use:**

**import** java.io.IOException ;  
...  
// *get a keypress so that the screen pauses before exiting***try**  
{  
System.out.println( "Press any key to exit.\n" ) ;  
System.in.read() ;  
}  
**catch**( IOException e )  
{  
}