

Week 1-2 : Introduce Programming Environment

- Shortcut key use

- Visual Studio 2010 Express

Compiling : F7 / Compiling and executing: F5

Non-debug : Ctrl + F5

* Common error : you have to make a one main function in the source file.

- Java Eclipse

Executing : ctrl + F11

Automatic completion : ctrl + space

Automatic alignment : select a scope and ctrl + shift + f

make a comment : select a scope and ctrl + shift + c

- Download Program

- Visual Studio 2010 Express

www.visualstudio.com / make your account and download it.

■ Java Eclipse

1. Download JDK : www.oracle.com



2. Click accept button and download

Java SE Development Kit 8u40		
You must accept the Oracle Binary Code License Agreement for Java SE to download this software.		
Thank you for accepting the Oracle Binary Code License Agreement for Java SE ; you may now download this software.		
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Windows x64	180.19 MB	jdk-8u40-windows-x64.exe

You can check your system at computer property.

3. Download Eclipse : Eclipse IDE for Java EE Developers

<http://www.eclipse.org/downloads/>

Java

Example1

```
public class HelloJava {  
    public static void main(String args[]) {  
        System.out.println("Hello, World");  
    }  
}
```

Example2

```
class Item {  
    public String title;  
    public double price;  
    private int inStockQuantity;  
    public double SalePrice(){ return (price * 0.9);}  
    public boolean isAvailable(){  
        if(inStockQuantity > 0) return true;  
        else return false;  
    }  
  
    public static void main(String args[]) {  
        Item A = new Item();  
        A.title = "comp";  
        A.price = 1000;  
        System.out.println(A.SalePrice());  
    }  
}
```

Example3 Multiple Inheritance (Java Overview)

- You don't worry about a meaning of this code. It's just an overviewing code.

```
interface Interface1 {  
    public void interface1();  
}  
  
interface Interface2 {
```

```
        public void interface2();
    }

    class Class {
        public void function(){
            System.out.println("Class Function");
        }
    }

    public class MultiInheritance extends Class implements Interface1, Interface2
    {
        public void interface1(){
            System.out.println("interface1 Function");
        }
        public void interface2(){
            System.out.println("interface2 Function");
        }
        public static void main(String[] args){
            MultiInheritance m = new MultiInheritance();
            m.interface1();
            m.interface2();
            m.function();
        }
    }
}
```

Example4 Iterator (Java Overview)

```
import java.util.*;
import java.util.Iterator;

public class IteratorEx {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        ArrayList a = new ArrayList();
        a.add("comp");
    }
}
```

```
        a.add(1);
        a.add(2.0);
        Iterator i = a.iterator();
        while(i.hasNext()) {
            Object obj = i.next();
            if(obj instanceof String) {
                String str = (String)obj;
                System.out.println(str);
            }
            else if(obj instanceof Integer) {
                int n = (Integer)obj;
                System.out.println(n);
            }
            else if(obj instanceof Double){
                double d = (Double)obj;
                System.out.println(d);
            }
        }
    }
}
```

Example5 Java Internet (Overview)

```
import java.io.*;
import java.net.*;

public class SocketClient {

    public static void main(String args[]) {

        OutputStreamWriter osw=null;

        try {
            osw=new OutputStreamWriter(new
Socket("127.0.0.1",5777).getOutputStream());
            //osw=new OutputStreamWriter(new
```

```
Socket("147.46.78.163",22).getOutputStream());
```

```
    } catch (IOException e) {  
        System.out.println("Fail");  
        System.exit(-1);  
    }  
}
```

```
String str="comp";
```

```
try {  
    osw.write(str,0,4);  
    osw.flush();  
} catch (IOException e) {  
    System.out.println("fail.");  
}
```

```
try {  
    osw.close();  
} catch (IOException e) {  
    System.out.println("close fail.");  
}
```

```
}
```

```
}
```