Packages

Package

- Group of similar types of classes, interfaces and sub-packages.
- Types of package:
  - Built-in package
  - User-defined package.

Benefits of packages

Java API packages or built-in packages

- **java.lang:** It contains classes for primitive types, strings, math functions, threads, and exceptions.
- **java.util:** It contains classes such as vectors, hash tables, dates, Calendars, etc.
- **java.io:** It has stream classes for Input/Output.
- **java.net:** Classes for networking

User defined package

- Packages that are defined by the user

```
package myPackage;
public class MyClass
{
 public void getNames(String s)
    {
        System.out.println(s);
    }
}
```

User defined package(Contd…)

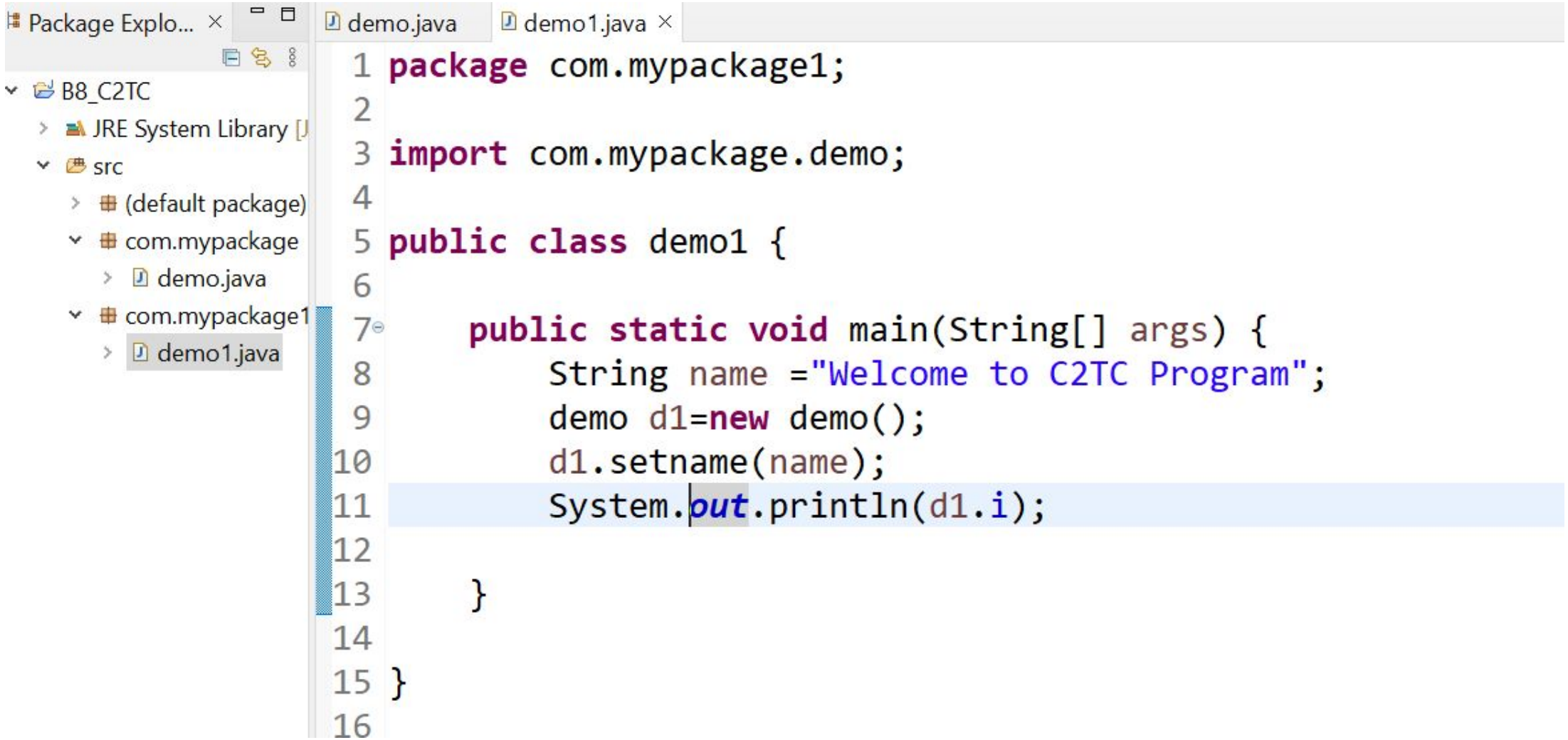
```
import myPackage.MyClass;

public class PrintName
{
   public  static  void  main(String  args[])
   {
            String name = "Welcome to C2TC Program";
             MyClass obj = new MyClass();
             obj.getNames(name);
   }
}
```

Using Packages

- Ways to access the package from outside the package.
  1. import package.*;
  2. import package.classname;
  3. fully qualified name.

Packages - Example

Packages - Example



Packages - Example

```
package pack;
public class A
{
  public void msg()
          {
             System.out.println("Hello from class A"); }
          }
```

Packages – Example(Contd…)

```
package pack;
public class C
    {
  public void msg()
            {
              System.out.println("Hello from class C"); }
            }
```

Packages – Example(Contd…)

```
package myPack;
import pack.*;
class B
{
  public static void main(String args[]) {
 A obj = new A();
 C obj1 = new C();
 obj.msg();
 obj1.msg();
 }
}
```