Here are five advantages of using packages and import statements in Java, along with code examples for each:

1. **Modularity**: Packages allow you to group related classes and other types together. This promotes a modular code structure, making it easier to understand and maintain your codebase.

```
"java
package com.example.utilities;

public class MathUtils {
    // ...
}

package com.example.app;

import com.example.utilities.MathUtils;

public class Main {
    public static void main(String[] args) {
        double result = MathUtils.add(5, 3);
        // ...
    }
}
```

2. **Name Space Management**: Packages prevent naming conflicts by providing a unique namespace for classes and other elements. This helps avoid collisions when different libraries or modules are used in a project.

```
"'java

// Class A in package com.example.a package com.example.a;

public class A {
    // ...
}

// Class A in package com.example.b package com.example.b;

public class A {
    // ...
}
```

```
// Importing and using classes A from different packages import com.example.a.A; import com.example.b.A;
```

3. **Access Control**: Packages allow you to control access to class members (fields, methods, etc.) using access modifiers like `private`, `protected`, `default`, and `public`. This helps enforce encapsulation and information hiding.

```
"java
package com.example;

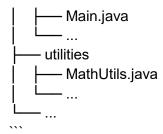
public class MyClass {
    private int privateField;
    int defaultField;
    protected int protectedField;
    public int publicField;
}
```

4. **Reusability**: Import statements enable you to reuse classes and libraries developed by others. You can import and use external libraries or APIs in your code.

```
""java
// Importing classes from the Java Standard Library
import java.util.ArrayList;
import java.util.List;

public class Main {
    public static void main(String[] args) {
        List<String> myList = new ArrayList<>>();
        // ...
    }
}
```

5. **Organization**: Packages provide a structured way to organize your codebase. This makes it easier to locate and navigate through classes and packages in larger projects.



By using packages and import statements effectively, you can create well-organized, maintainable, and extensible Java applications.