In Java 9, we can create private methods inside an interface. Interface allows us to declare private methods that help to share common code between non-abstract methods.

Before Java 9, creating private methods inside an interface cause a compile time error. The following example is compiled

Java 9 Private Interface Methods Example

interface Sayable{

using Java 8 compiler and throws a compile time error.

```
default void say() {
    saySomething();
}

// Private method inside interface
private void saySomething() {
    System.out.println("Hello... I'm private method");
}

public class PrivateInterface implements Sayable {
    public static void main(String[] args) {
        Sayable s = new PrivateInterface();
        s.say();
    }
}

Output:
```

Note: To implement private interface methods, compile source code using Java 9 or higher versions only.

Now, lets execute the following code by using Java 9. See the output, it executes fine.

interface Sayable{

saySomething();

Java 9 Private Interface Methods Example

PrivateInterface.java:6: error: modifier private not allowed here

default void say() {

```
// Private method inside interface
private void saySomething() {
    System.out.println("Hello... I'm private method");
}

public class PrivateInterface implements Sayable {
    public static void main(String[] args) {
        Sayable s = new PrivateInterface();
        s.say();
    }
}
```

Hello... I'm private method

Output:

interface Sayable{
default void say() {

Java 9 Private Static Methods Example

saySomething(); // Calling private method

sayPolitely(); // Calling private static method

Such like, we can also create private static methods inside an interface. See, the following example.

```
// Private method inside interface
private void saySomething() {
    System.out.println("Hello... I'm private method");
}

// Private static method inside interface
private static void sayPolitely() {
    System.out.println("I'm private static method");
}

public class PrivateInterface implements Sayable {
    public static void main(String[] args) {
        Sayable s = new PrivateInterface();
        s.say();
    }
}

Output:
```

Hello... I'm private method
I'm private static method