

## 2. Writing a program in Java to implement access modifiers

```
public class AccessModifiersExample {

    public static void main(String[] args) {
        MyClass myObject = new MyClass();
        myObject.publicMethod();
        // myObject.privateMethod(); // This line will cause a compilation error
        myObject.defaultMethod();
        myObject.protectedMethod();
    }

}

class MyClass {

    public void publicMethod() {
        System.out.println("This is a public method");
    }

    private void privateMethod() {
        System.out.println("This is a private method");
    }

    void defaultMethod() {
        System.out.println("This is a default method");
    }

    protected void protectedMethod() {
        System.out.println("This is a protected method");
    }

}
```

```
}
```

OUTPUT:

This is a public methodThis is a default method

This is a protected method