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

```
Source Code:
package FirstPackage;
class AccessModifiersDemo {
    public int publicVar = 00;
    private int privateVar = 20;
    protected int protectedVar = 4130;
    public void publicMethod() {
         System.out.println("This is a public method");
    private void privateMethod() {
         System.out.println("This is a private method");
    protected void protectedMethod() {
         System.out.println("This is a protected method");
    void defaultMethod() {
         System.out.println("This is a default method");
}
public class Main {
    public static void main(String[] args) {
         AccessModifiersDemo obj = new AccessModifiersDemo();
         // accessing public variable and method
         System.out.println("publicVar = " + obj.publicVar);
         obj.publicMethod();
         // accessing private variable and method (will cause a compile error)
         //System.out.println("privateVar = " + obj.privateVar);
         //obj.privateMethod();
         // accessing protected variable and method
         System.out.println("publicVar = " + obj.publicVar);
         obj.protectedMethod();
         // accessing default method
         obj.defaultMethod();
    }
}
Output:
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                                                                       <terminated> Main [Java Application] C.\Users\pc\.p2\pool\plugins\org.edipse.justj.openjdk.hotspot.jre.full.win32.x86_64_19.0.2.v20230129-1123\jre\bin\javaw.exe (07-May-2023, 3')
This is a public method publicVar = 0
This is a protected method
This is a default method
```