

7. Writing a program in Java to verify the implementation of inner classes.

Source Code:

```
package FirstPackage;

public class innerClassAssisted1 {

    private String msg="Welcome";

    class Inner{
        void hello(){System.out.println(msg+", Inner Classes");}
    }

    public static void main(String[] args) {

        innerClassAssisted1 obj=new innerClassAssisted1();
        innerClassAssisted1.Inner in=obj.new Inner();
        in.hello();
    }

    public class innerClassAssisted2 {

        private String msg="Inner Classes";

        void display(){
            class Inner{
                void msg(){
                    System.out.println(msg);
                }
            }

            Inner l=new Inner();
            l.msg();
        }

        public static void main(String[] args) {
            innerClassAssisted2 ob=new innerClassAssisted2 ();
            ob.display();
        }

        //anonymous inner class
        abstract class AnonymousInnerClass {
            public abstract void display();
        }

        public class innerClassAssisted3 {
```

```

public static void main(String[] args) {
    AnonymousInnerClass i = new AnonymousInnerClass() {

        public void display() {
            System.out.println("Anonymous Inner Class");
        }
    };
    i.display();
}

```

Output:

