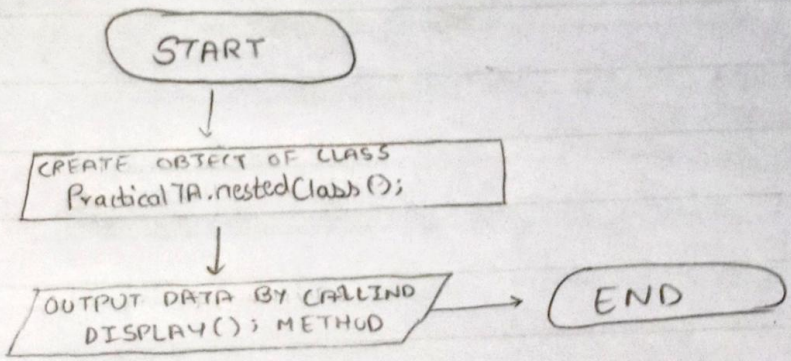
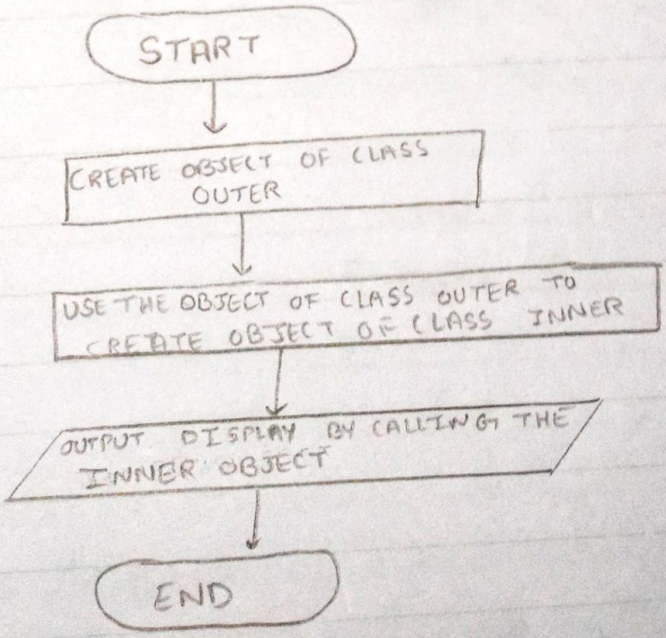
Practical No. 07

Aim : Create, debug and run java programs based on Nested and Inner classes

Flow chart :



Code 1: Nested Class



Code 2: Inner classes

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Theory:

What is a nested class?

→ • A class which is defined within another class is called as nested class.

• The scope of the nested class is bounded by the scope of the ~~inner classes~~ enclosing classes.

• Example:

```
public class School {
    class student {
        st String name;
        student(){
            name = "User";
        } marks = 0;
    }
    private int marks;
}
School(){

    }
}
```

What is an Inner class?

→ • An inner class is nested but non-static and it is the most important of all nested classes.

• It has access to all the members of the outer classes

• Example,

```
class Outer {
    int x = 5;
    class Inner {
        int y;
    }
}

class Main {

    public static void main(String[] args){
        Outer out = new Outer();
        Outer.Inner Inn = out.new Inner();
        System.out.println( out.x + Inn.y);
    }
```

Conclusion:

Hence, I learnt the concepts of Inner classes and nested classes and thus created, developed and executed java programs based on Nested and Inner classes.