# **Conclusion:**

1. Nested simple if is *permitted*.

```
Example code:
```

```
Eclipse IDE
oject Run Window Help
 1 package demo;
   2 import java.util.Scanner;
   3 public class demo
   4 {
   5⊜
          public static void main(String[] args)
   6
   7
               Scanner scan= new Scanner(System.in);
               System.out.println("enter the number");
   8
   9
               int n=scan.nextInt();
  10
               if(n>0)
  11
                    if(n>=10)
  12
  13
  14
                    if(n<50)
  15
  16
                        System.out.println("Hello, perfect");
  17
  18
  19
               }
 20
  21 }
                                                                                                - × % | A a 0 0 0

    Problems @ Javadoc   □ Declaration  □ Console ×

 <terminated> demo [Java Application] C\Program Files\Java\jdk-20\bin\javaw.exe (07-Jul-2023, 7:59:46 pm - 7:59:51 pm) [pid: 2828]
 enter the number
 Hello, perfect
```

#### 2. Nested if-else is permitted.

```
Example code:
```

```
else
                         {
                                  System.out.println("number is not within 50");
                 }
                 else
                         System.out.println("Number is negative");
        }
}
ject Run Window Help
 1 package demo;
   2 import java.util.Scanner;
   3 public class Fan
   4 {
   5 public static void main(String[] args)
             Scanner scan= new Scanner(System.in);
   8
             System.out.println("enter the number");
   9
             int n=scan.nextInt();
             if(n>=0)
  10
  11
 12
                  if(n>=1 && n<=50)
 13
                      System.out.println("number is within 50");
  14
  15
  16
                  else
 17
                  {
                      System.out.println("number is not within 50");
 18
 19
 20
             }

    × ¾ | B, 51

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 <terminated> Demo1 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (07-Jul-2023, 8:40:29 pm – 8:40:33 pm) [pid: 5160]
 enter the number
 number is within 100
                                                              15:14:313
```

### 3. Nested if-else is *permitted*.

## **Example code:**

```
package demo1;
import java.util.Scanner;
public class Demo1 {
```

```
1 - Eclipse IDE
oject Run Window Help
 🔝 demo.java 🔝 Fan.java 🔑 Demo1.java 🗴
   1 package demo1;
   2 import java.util.Scanner;
   3 public class Demo1 {
          public static void main(String[] args)
               Scanner scan= new Scanner(System.in);
 System.out.println("enter the number");
               int n=scan.nextInt();
   9
                    if(n<=50)
  10
                         System.out.println("Number is within 50");
  11
  12
                         }
                         else
  13
  14
                             if(n<=100)
  15
  16
  17
                                  System.out.println("number is within 100");
  18
  19
                              else
  20
                                                                                                 - × 🗞 | 🗟 🚮 🔊 🚑 🚑

    Problems @ Javadoc    Declaration    □ Console ×

 <terminated > Demo1 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (07-Jul-2023, 8:40:29 pm – 8:40:33 pm) [pid: 5160]
 enter the number
 number is within 100
```

#### 4. Nested while is *not permitted.*

#### **Example code:**

```
System.out.println("number is within 50");
}
System.out.println("number is not within 50");
break;
}
}
```

```
Eclipse IDE
oject Run Window Help
🛭 demo.java 🗡 🔝 Fan.java 🔑 Demo1.java
   1 package demo;
   2 import java.util.Scanner;
   3 public class demo
   4 {
   5 public static void main(String[] args)
   6
   7
              Scanner scan= new Scanner(System.in);
   8
              System.out.println("enter the number");
   9
              int n=scan.nextInt();
  10
              while(n==1)
  11
  12
                   while(n<=50)</pre>
  13
  14
                        System.out.println("number is within 50");
  15
  16
                   System.out.println("number is not within 50");
  17
                   break;
              }
  18
 19
          }
                                                                          ■ X ¾ 🗎 🔐 🔛 📂 ゼ 🗨 🗂 🗆

    Problems @ Javadoc    □ Declaration    □ Console ×

 <terminated> demo [Java Application] C\Program Files\Java\jdk-20\bin\javaw.exe (07-Jul-2023, 8:52:26 pm – 8:52:35 pm) [pid: 2248]
 number is within 50
 number is within 50
 number is within 50
 number is within 50
 number is within 50
```

#### 5. Nested do while is not permitted.

#### **Example code:**

```
package demo1;
import java.util.Scanner;
public class Demo1 {
       public static void main(String[] args)
               Scanner scan= new Scanner(System.in);
               System.out.println("enter the number");
               int n=scan.nextInt();
                      while(n>=0) {
                              do{
                                     System.out.println("Number is within the range");
                                     break:
                              }while(n<=50);
               }
}
va - Eclipse IDE
roject Run Window Help
🗖 🔑 demo.java 🔑 Fan.java 🔑 *Demo1.java 🗴
    1 package demo1;
    2 import java.util.Scanner;
    3 public class Demo1 {
          public static void main(String[] args)
    5
              Scanner scan= new Scanner(System.in);
    6
              System.out.println("enter the number");
              int n=scan.nextInt();
   9
                   while(n>=0) {
   10
                       do{
                           System.out.println("Number is within the range");
  11
  12
                           break;
  13
                       }while(n<=50);
  14
                   }
  15
              }
  16 }
  Problems @ Javadoc  □ Declaration □ Console ×
                                                                     <terminated> Demo1 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (07-Jul-2023, 9:04:59 pm – 9:05:08 pm) [pid: 8888]
  Number is within the range
  Number is within the range
```

Writable

Smart Insert

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