1.Nested simple if

```
package com.kodnest.assignment.java;

public class NestedIf {

	public static void main(String[] args) {
		int a=20;
		int b=30;
		int c=40;

		if(a==20) {
			System.out.println("a is 20");
			if(b==30) {
				System.out.println("b is 30");
				if(c==40) {
					System.out.println("c is 40");
				}
			}
		}
		System.out.println("out side the loop");

	}

}
```

Output:-

```
a is 20
b is 30
c is 40
out side the loop
```

2.Nested if-else

```
package com.kodnest.assignment.java;

public class NestedIfElse {

	public static void main(String[] args) {
		int a=20;
		int b=30;


		if (a==20) {
			System.out.println("a is 20");
			if (b==30) {
				System.out.println("b is 30");
			} else {
				System.out.println("b is not 30");
			}
		}
```

```
            else {
                System.out.println("a is not 20");
            }
            System.out.println("out side of the loop");
      }

}
```

Output:-

```
a is 20
b is 30
out side of the loop
```

3.Nested if-else ladder

```
package com.kodnest.assignment.java;

public class NestedIfElseIfElse {

      public static void main(String[] args) {
            int a=20;
            int b=30;

            if (a==20) {
                  System.out.println("a is equal to 20");
            }
            else {
                  System.out.println("a is not equal to 20");
                  if(b==30) {
                        System.out.println("b is equal to 30");
                  }
                  else {
                        System.out.println("b is not 30");
                  }
            }
            System.out.println("out side of the loop");
      }

}
```

Output:-

```
a is equal to 20
out side of the loop
```

4.Nested while loop

```
package com.kodnest.assignment.java;
```

```java
public class NestedWhileLoop {

	public static void main(String[] args) {

		int i=1;

		while(i<=5) {
			System.out.println("i= "+i);
			int j=1;
		while(j<=2) {
			System.out.println("j= "+j);
			j++;
		}
		i++;
		}

	}

}
```

Output:-

```
i= 1
j= 1
j= 2
i= 2
j= 1
j= 2
i= 3
j= 1
j= 2
i= 4
j= 1
j= 2
i= 5
j= 1
j= 2
```

5.Nested do-while loop

```java
package com.kodnest.assignment.java;

public class NestedDoWhileLoop {

	public static void main(String[] args) {

	int i=1;

	do { int j=1;
		do {
```

```
                System.out.println("i= "+i);

                System.out.println("j= "+j);
                j++;
            }while(j<=2);
            i++;
      }while(i<=5);
      }

}
```

Output:-

```
i= 1
j= 1
i= 1
j= 2
i= 2
j= 1
i= 2
j= 2
i= 3
j= 1
i= 3
j= 2
i= 4
j= 1
i= 4
j= 2
i= 5
j= 1
i= 5
j= 2
```