

Programs

1.IS NESTED SIMPLE IF PERMITTED?

yes

```
package conditions;
```

```
import java.util.*;
```

```
public class NestedIf {
```

```
    public static void main(String[] args) {
```

```
        System.out.println("enter number n1");
```

```
        Scanner scan=new Scanner(System.in);
```

```
        int n1=scan.nextInt();
```

```
        System.out.println("enter number n2");
```

```
        int n2=scan.nextInt();
```

```
        System.out.println("enter number n3");
```

```
        int n3=scan.nextInt();
```

```
            if(n1>0)
```

```
            {
```

```
                System.out.println(" positive ");
```

```
                if( n2<n1)
```

```
        {  
            System.out.println("negative");  
        }  
    if(n3==0)  
    {  
        System.out.println("whole number");  
    }  
}  
  
}
```

Output:-

```
enter number n1  
4  
enter number n2  
2  
enter number n3  
0  
    positive  
negative  
whole number
```

2.IS NESTED IF-ELSE PERMITTED?

Yes

```
public class NestedIf{  
    public static void main(String[] args) {  
        System.out.println("enter number n1");  
        Scanner scan=new Scanner(System.in);  
        int n1=scan.nextInt();  
        if(n1>0)  
        {  
            if( n1%2==0)  
            {  
                System.out.println("even");  
            }  
            else  
            {  
                System.out.println("odd number")  
            }  
        }  
        else  
        {
```

```
        System.out.println("please enter correct value);  
    }  
}  
}
```

Output:-

```
enter number n1  
4  
even number
```

3.IS IF-ELSE IS PERMITTED IN ELSE?

Yes

```
public class NestedIf{  
    public static void main(String[] args) {  
        int n1=100;  
        if(n1==0)  
        {  
            System.out.println(" number");  
        }  
        else  
        {
```

```
        if( n1>3)
        {
            System.out.println("welcome");
        }
        else
        {
            System.out.println("hello");
        }
    }
}
```

Output:-

```
welcome
```

4.IS NESTED WHILE PERMITTED?

Yes

```
public class While{
    public static void main(String[] args) {
        int i=1;
```

```
int j=1;
while(i<=10)
{
    System.out.println(i);
    i++;
    while(j<=i)
    {
        System.out.println(j);
        j++;
    }
}
```

Output:-

```
1
1
2
2
3
3
4
4
5
```

```
5
6
6
7
7
8
8
9
9
10
10
11
```

```
Ex:2--public class NestedIf{
    public static void main(String[] args) {
        int i=1;
        int j=10;
        while(i<=10)
        {
            System.out.println(i);
            i++;
            while(j>1)
            {
                System.out.println(j);
```

```
        j--;  
    }  
}  
}
```

Output:-

```
1  
10  
9  
8  
7  
6  
5  
4  
3  
2  
2  
3  
4  
5  
6  
7  
8  
9  
10
```


5.IS NESTED DO-WHILE IS PERMITTED?

Yes

```
public class DoWhile{  
    public static void main(String[] args) {  
        int i=1;  
        int j=10;  
        do  
        {  
            System.out.println(i);  
            i++;  
        }while(i<=10);  
        do  
        {  
            System.out.println(j);  
            j--;  
        }while(j>1);  
    }  
}
```

Output:-

1
2
3
4
5
6
7
8
9
10
10
9
8
7
6
5
4
3
2