





```

1 package lab7;
2
3 public class MedicalStaff {
4     void work() {
5         System.out.println("Medical staff performs medical duties.");
6     }
7 }
8
9 // Doctor class extends MedicalStaff
10 class Doctor extends MedicalStaff {
11     @Override
12     void work() {
13         System.out.println("Doctor diagnoses patients and prescribes treatment.");
14     }
15 }
16
17 // Surgeon class extends Doctor (Multilevel Inheritance)
18 class Surgeon extends Doctor {
19     @Override
20     void work() {
21         System.out.println("Surgeon performs surgical operations.");
22     }
23 }
24
25 // Nurse class extends MedicalStaff (Hierarchical Inheritance)
26 class Nurse extends MedicalStaff {
27     @Override
28     void work() {
29         System.out.println("Nurse assists doctors and takes care of patients.");
30     }
31 }
32
33 |
34

```

Console

terminated: @hanya [Java Application] C:\Users\HPN\Documents\New folder\id-4.75.0.RELEASE\plugin\org.eclipse.jdt.launcher\jdt.launcher.exe -Xmx64m -Xms64m -Xss1M -XX:MaxPermSize=256m -XX:HeapDumpPath=C:\Users\HPN\Documents\New folder\id-4.75.0.RELEASE\plugin\org.eclipse.jdt.launcher\jdt.launcher.exe [pid: 22276]

Doctor diagnoses patients and prescribes treatment.
 Surgeon performs surgical operations.
 Nurse assists doctors and takes care of patients.

