

```
1 namespace HospitalManagementSystem
2 {
3     public class MedicalStaffFactory
4     {
5         public MedicalStaff CreateStaff(string type, string name, string
6             contact, DateTime dob, string working_hours, string experience)
7         {
8             switch (type)
9             {
10                 case "SurgicalNurse":
11                     return new SurgicalNurse(name, contact, dob,
12                         working_hours, experience);
13                 case "Surgeon":
14                     return new Surgeon(name, contact, dob, working_hours,
15                         experience);
16                 case "Pediatrician":
17                     return new Pediatric(name, contact, dob, working_hours,
18                         experience);
19                 case "EmergencyNurse":
20                     return new EmergencyNurse(name, contact, dob,
21                         working_hours, experience);
22                 case "PediatricNurse":
23                     return new PediatricNurse(name, contact, dob,
24                         working_hours, experience);
25                 case "Psychologist":
26                     return new Psychologist(name, contact, dob,
27                         working_hours, experience);
28                 default:
29                     throw new ArgumentException("Invalid staff type");
30             }
31         }
32     }
33 }
```