### Bing

Certainly! Let's delve into the relationships among the classes in our Lab Appointment System at ABC Laboratories:

#### 1. Patient:

- **Association with Test**: A patient can have multiple medical tests. This is a **one-to-many** association. Each test is associated with exactly one patient, but a patient can have multiple tests.
- Association with Billing: A patient receives a bill for the medical services. This is also a one-to-many association. Each billing record corresponds to one patient, but a patient can have multiple bills.

# 2. **Test**:

- **Association with Technician**: A test is performed by a technician. This is a **many-to-one** association. Multiple tests can be performed by the same technician.
- Association with Doctor: A doctor recommends specific tests for patients. Again, this is a many-to-one association. Multiple tests can be recommended by the same doctor.

## 3. Billing:

• **Association with Patient**: Billing records are associated with a specific patient. This is a **many-to-one** association. Multiple billing records can belong to the same patient.

### 4. Appointment:

- **Association with Patient**: An appointment is scheduled for a specific patient. This is a **many-to-one** association. Multiple appointments can be associated with the same patient.
- **Association with Doctor**: Each appointment is assigned to a doctor. Again, this is a **many-to-one** association. Multiple appointments can be assigned to the same doctor.

#### 5. Admin:

- **Association with Appointment**: The admin manages appointments. This is a **one-to-many** association. The admin can manage multiple appointments.
- **Association with Test**: The admin also manages test-related information. This is another **one-to-many** association. The admin can manage multiple tests.

Remember that these associations represent how different classes interact within the system. They help ensure data consistency and efficient management of appointments, tests, and billing. If you need further clarification or have additional questions, feel free to ask!