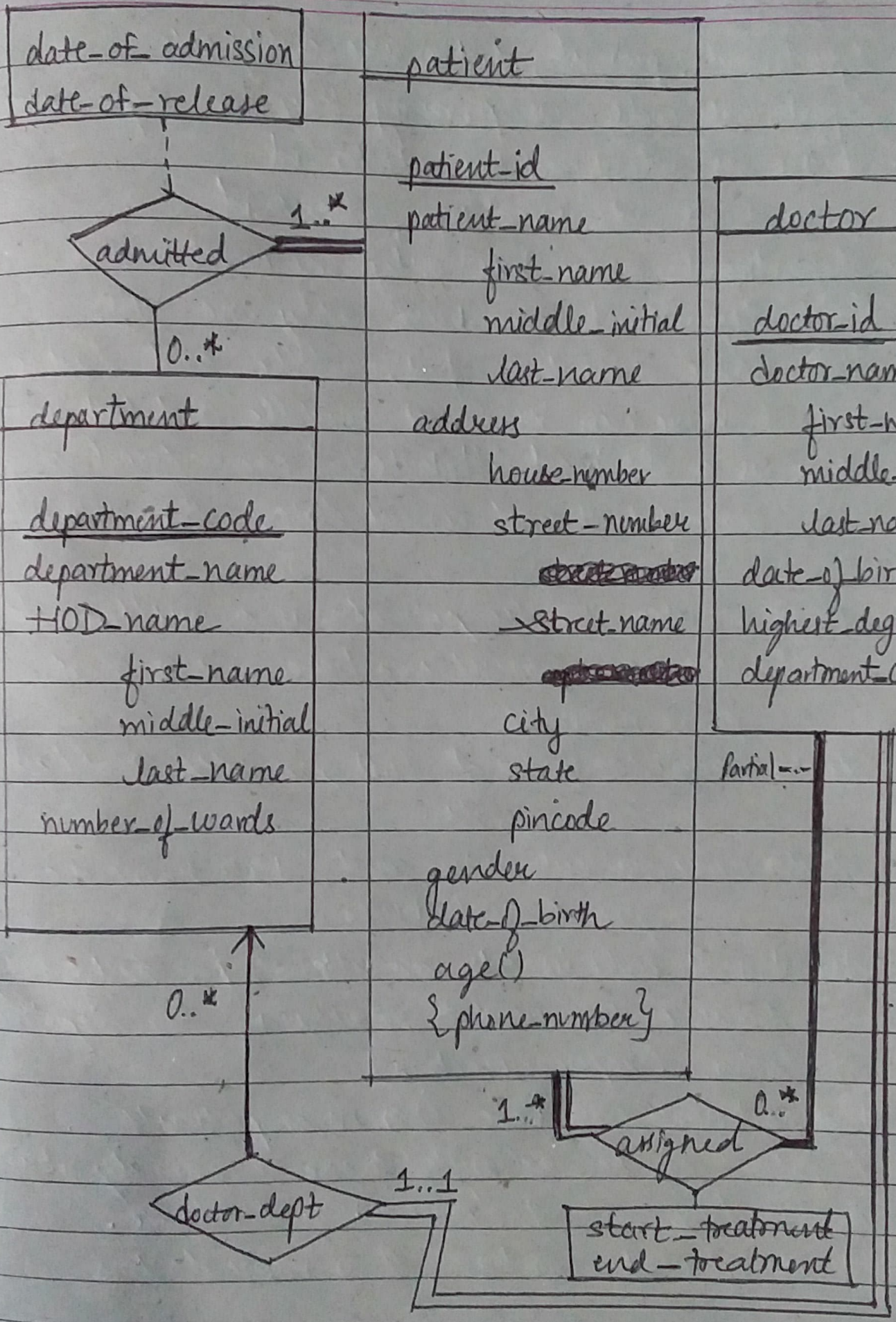
Name = RADHIKA PATWARI

Rollno. = 18CS10062



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Assumptions

1. department, patient, doctor are entity sets
2. department_code is primary key for department set
3. doctor is identified by doctor_id
4. patient is identified by patient_id
5. department name has only one word
6. Each department can have only one HOD
7. HOD name can have first, middle and last words
8. Patient name can have first, middle and last words
9. age is a derived attribute and can be found using date of birth and current date for the patient
10. phone number for the patient is a multivariate attribute as a patient can have one or more phone numbers
11. doctor name comprises of first, middle and last words.
12. doctor name, patient name and HOD name are comprised attributes
13. department_code is also an attribute for doctor entity set because we need to maintain the department of doctor (as per question)
14. A department can have 0 or more patients
15. A patient can be admitted to one or many departments identified by date of admission and release.
16. A department can have 0 or more doctors

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17. A doctor must belong to only one department
18. A patient must be admitted to a department
19. A patient must be assigned to atleast one doctor
20. A doctor can have 0 or more patients.
21. Date of admission and release are related with patient and department and has no relation with doctor. Implying, a doctor can be assigned to a patient and vicevesa without maintaining date of admission or release.
22. We maintain Start_treatment and end_treatment date for the patient with respect to any doctor
23. Street is a composite attribute containing street-number, street name
24. ~~A patient who is assigned a doctor~~ when a patient is admitted to a department, he may have different doctors for same time. Hence we maintain start_treatment and end_treatment attribute for doctor-patient relation.
25. address is a composite variable containing house no., street name, street no., city, state and pincode