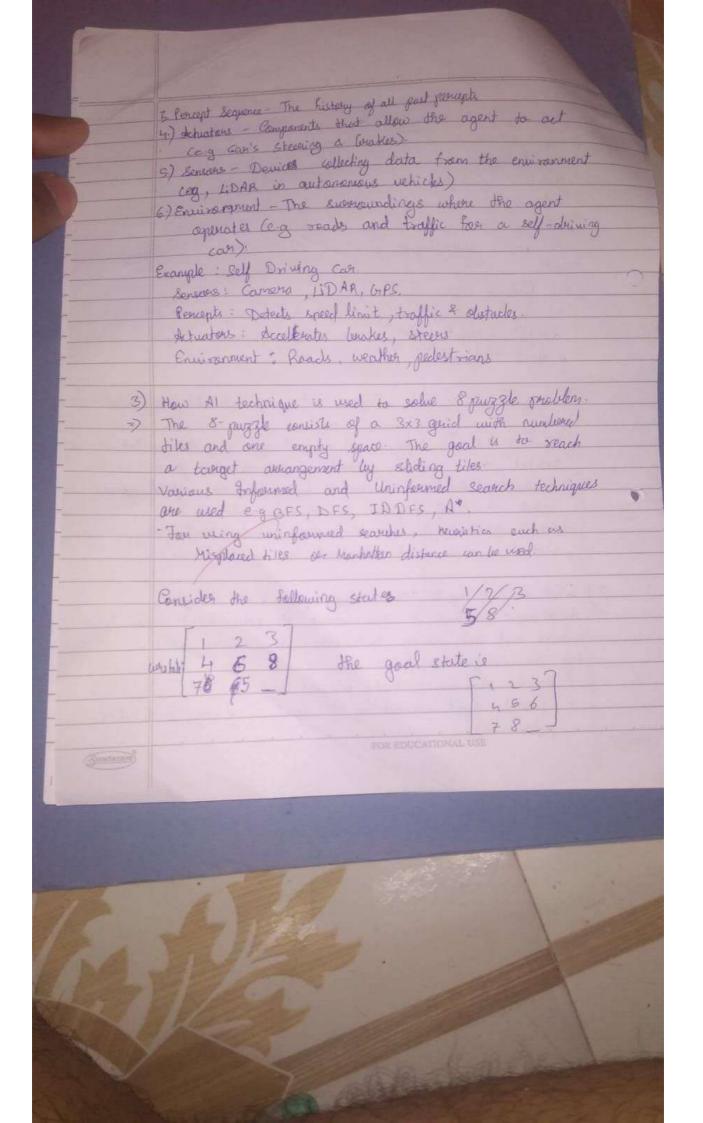
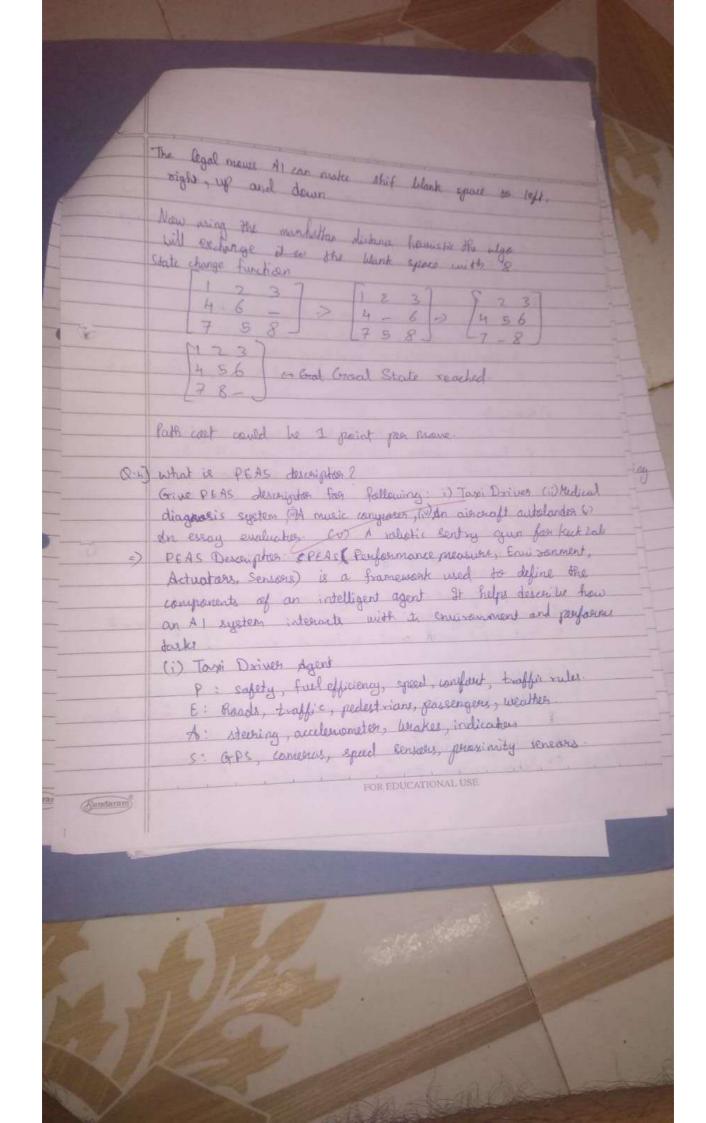
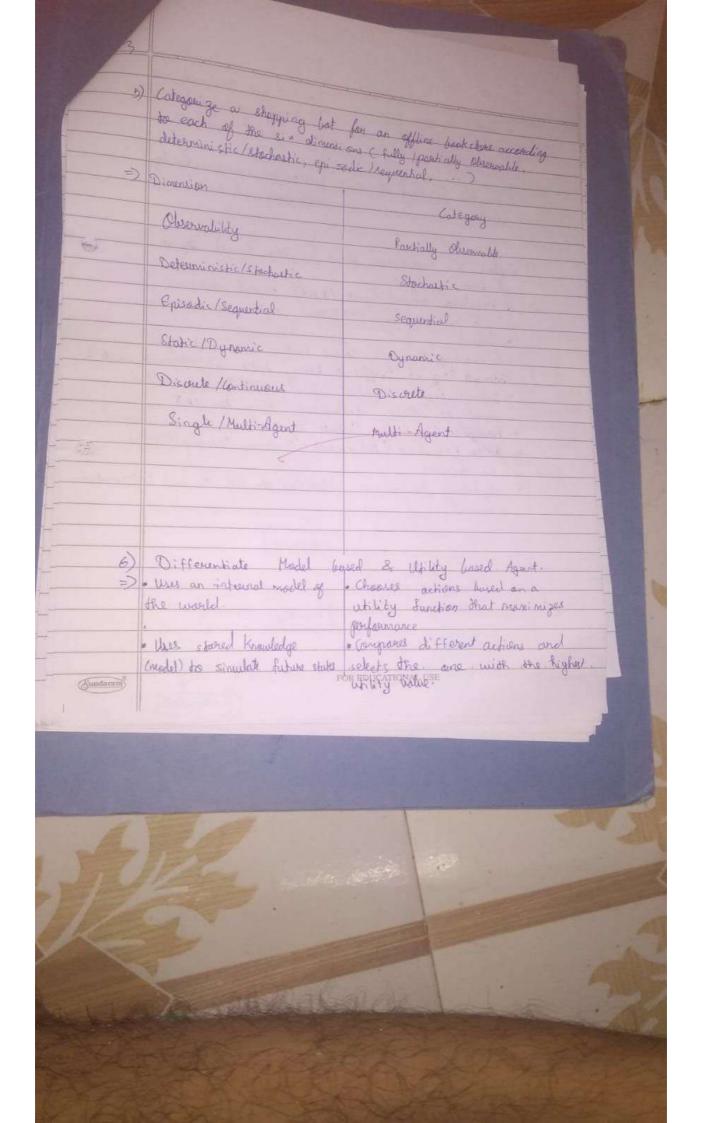
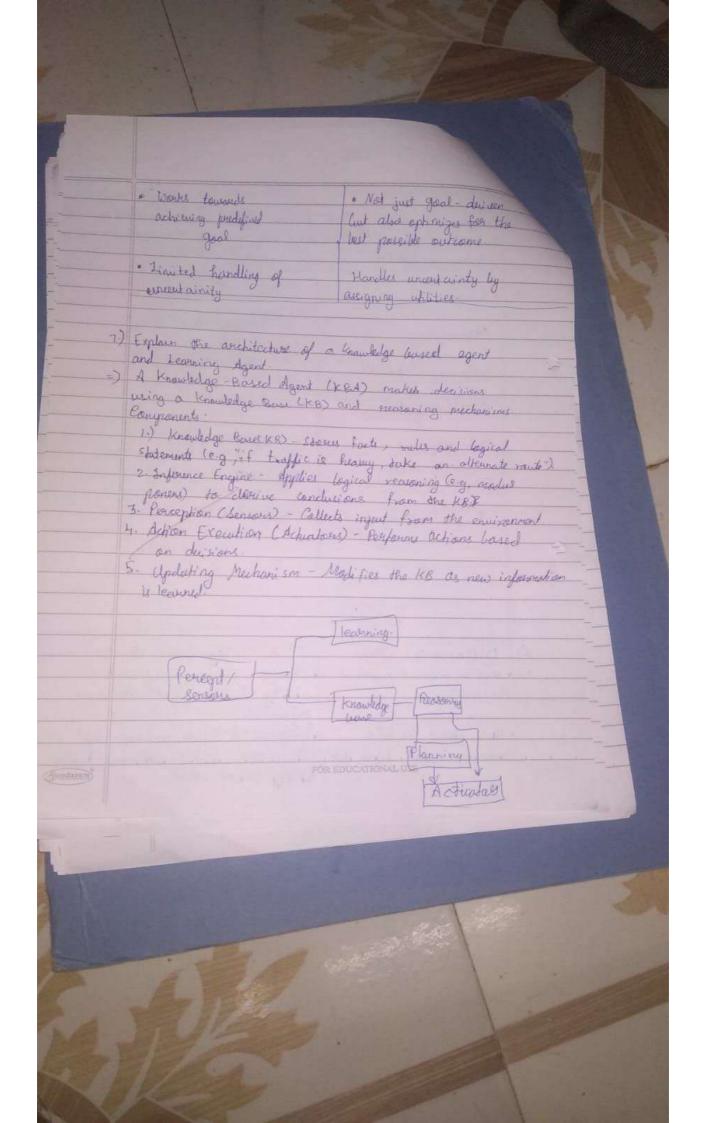
Name & Shubham B. The _ Class : DISC AIDS-Assignment-1) Roll No. 19 3. What is A1? Considering the could-19 gardenic situation, how Al helped to survive a generated own way of life with different applications? A st. ficial Intelligence (AI) is the field of computer science that enables machines to itimulate simulate human intelligence. including booming, reasoning, and decision making. Al ercompasses technologies such as MI, NLP, CV to automate Al's Role in COVID-19 1) Early Detection & Diagonosis - Al models (eg Blue Dot) detected out weaks early; Al-assited CT scans helped in quick diagonalis 2 Doug & Vaccine Dele Development - A1 (e.g. Alphatold) accelerated along discovery and writine research 3) Contact Tracing & Scripty - Al powered apps (e.g. Aarogya Setu) tracked visus sporead, thermal cameras detected fever 4) Healthcase & Rabatics - Al chatbots assisted with self-diagnosis; volvate disinfected hospitals & obtivered medicines 5) Remote Work of Education - Al improved wides conferencing, wirtual assistants and adaptive learning platforms. 2.) What are Al agente terminology, explain with examples. > An Al agent procedures its envisorment ets envisorment thoraugh senewers and arts wing actuators to achieve goals key terminologies include: I Agent - An entity that preceives and acts 2 Pencent - Input sieceived by the agent cog camera detecting redestrions) FOR EDUCATIONAL USE Sundaram

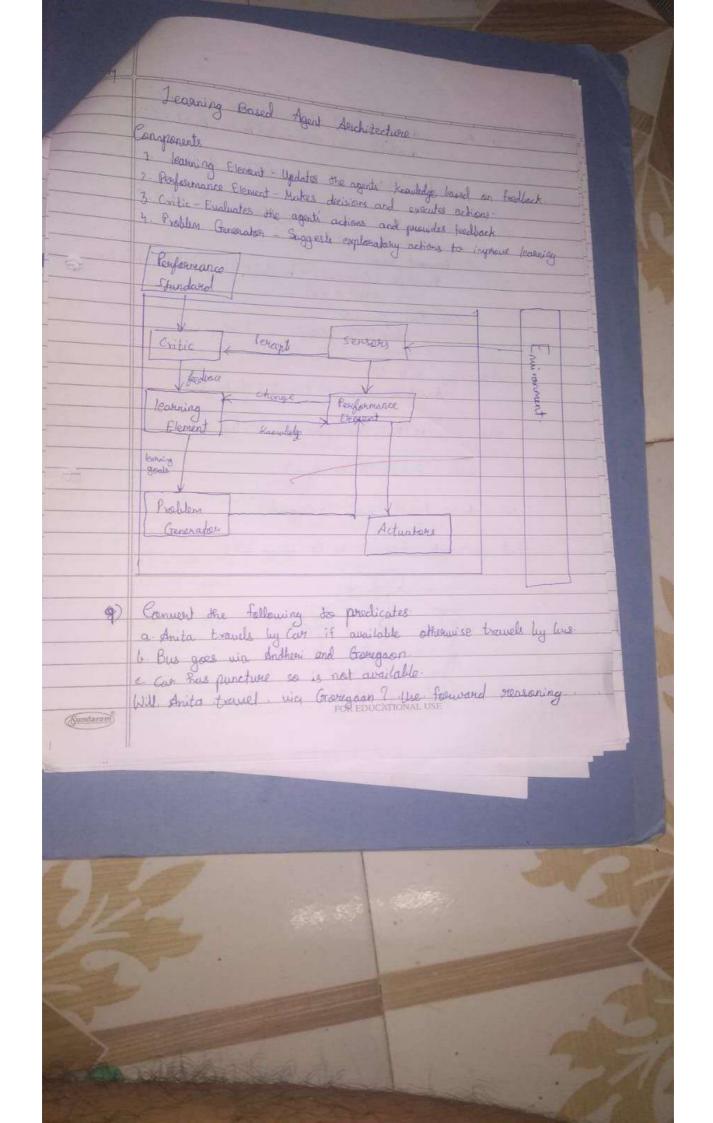


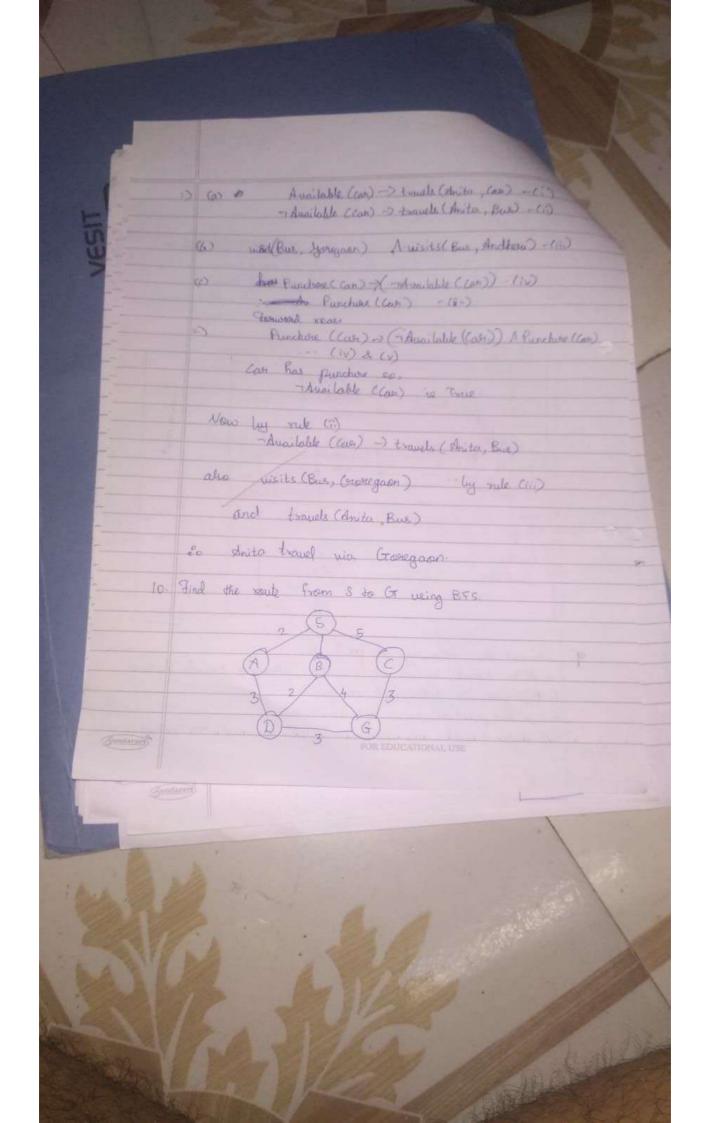


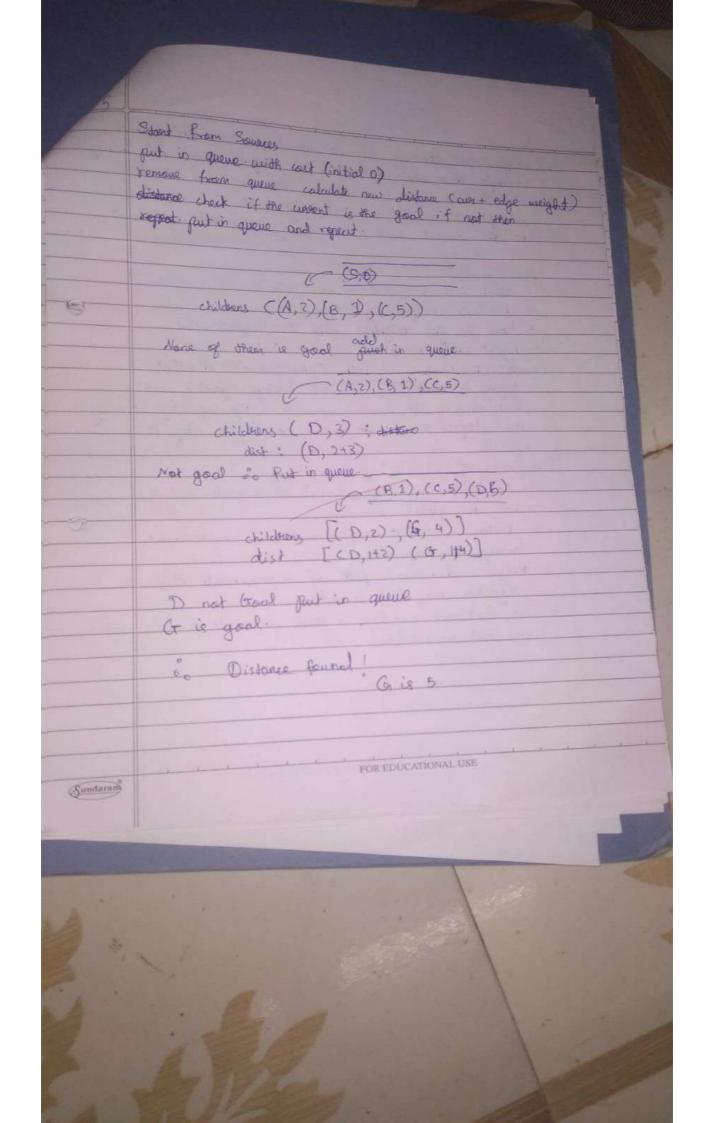
Con Medical Diagonovii system P: Accuracy, Effect weres pe Exportent will be records, medical examples, hegital database A : Displaying diagonalis, suggesting treatment prevailing metri S. Artient mut, lab, test xeents. 3) Al Music Congress P. Creativity, harmony, originality, satisfaction E Musical notes, user preferences, genos clyles A: Generating metad es, madifying pitch temper 5. Music data bose, uses feedback, real thre capit lossed, style 4) Shite lander P. Safe lander, smooth touchdown, weather adaption. E: Runway weather conditions, and speed, allique A: Contraking thouse, flops, landing year stateaking system S. Radner, altreter, GPS, wind servous, speciameter 5. Essay Evaluation P : Accusing of grading, fairness, granus spekling E: Essays, granutic rules, plagianim database, rularis A disgripping grades, providing feedback, suggesting improvements S. Terot input, work count, syntax of generation electrons 6 Robotic Sentry Grun for buck Lab P. Intruden detection accuracy, response time, minimal false about A Laboratory and , authorized personnel, introders A : Roboting twind, firing warning shots, sounding alone S? Marion seniors, thesimal Constitute

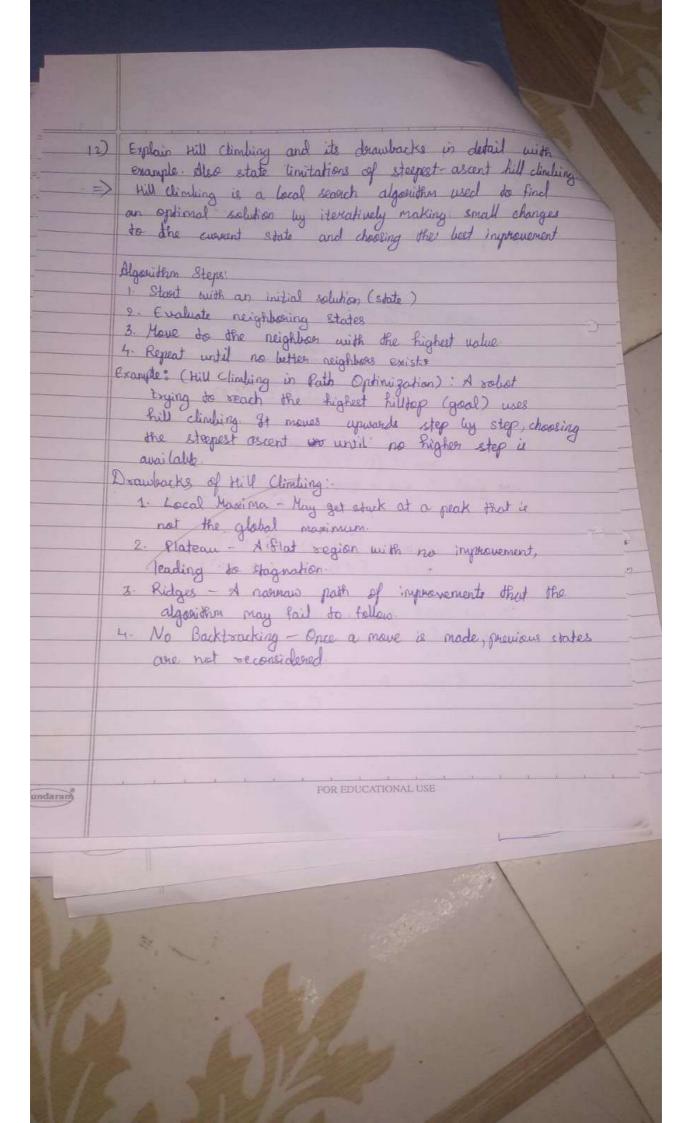


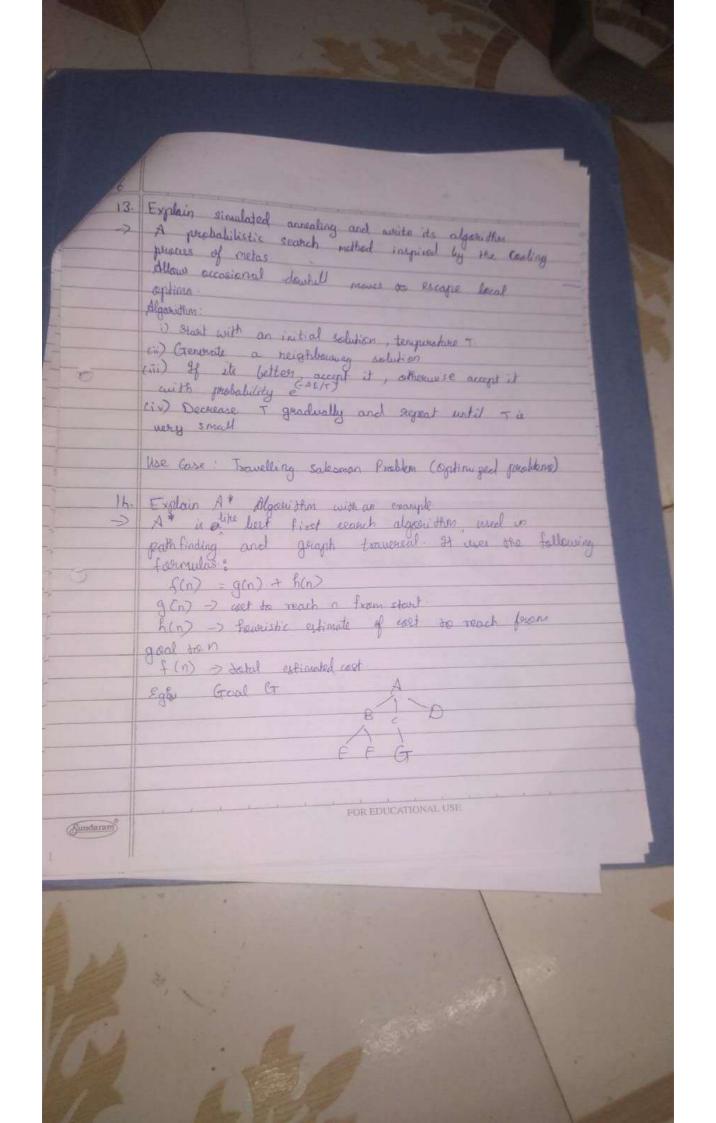


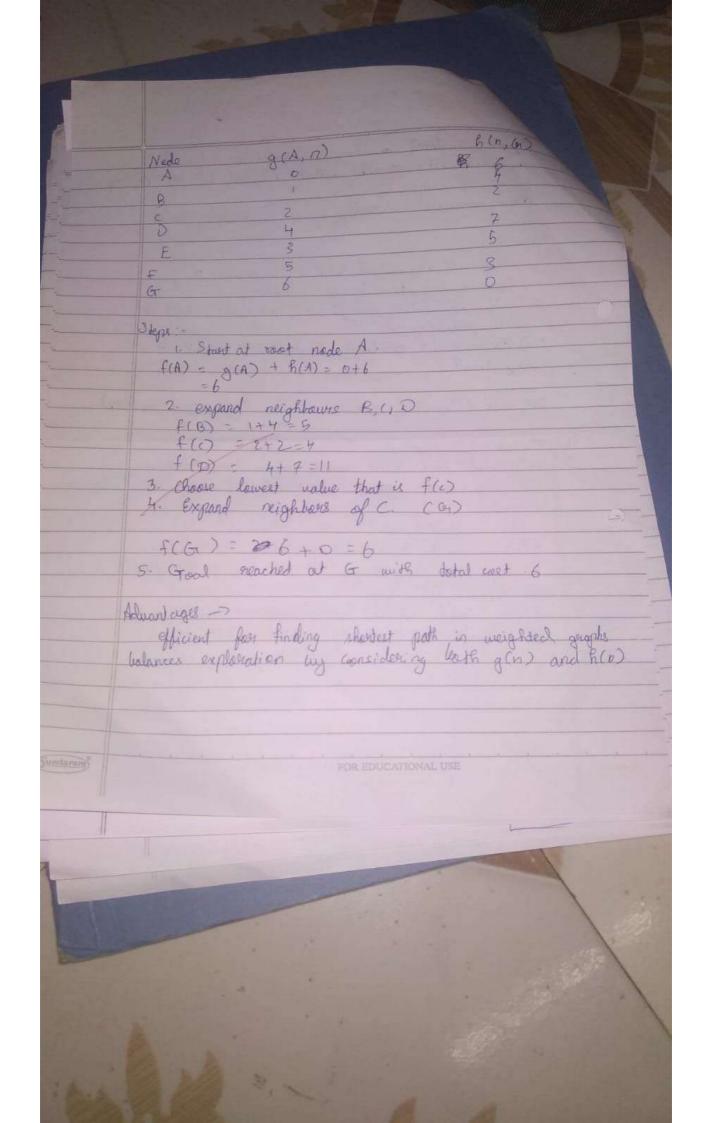


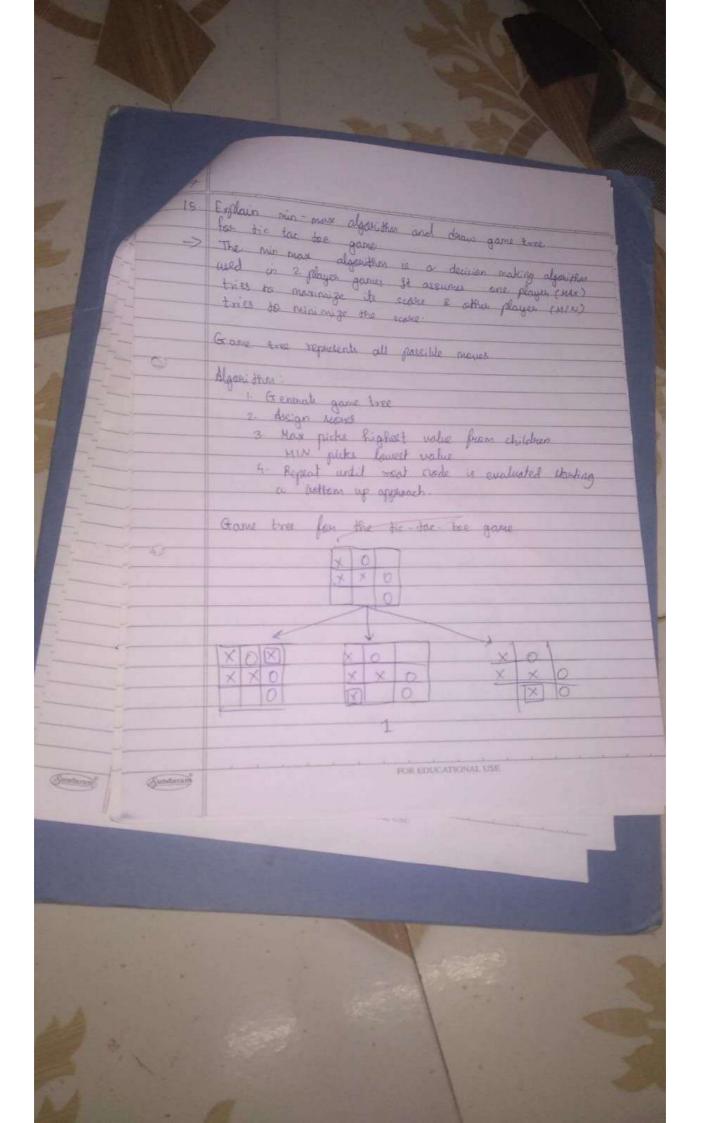


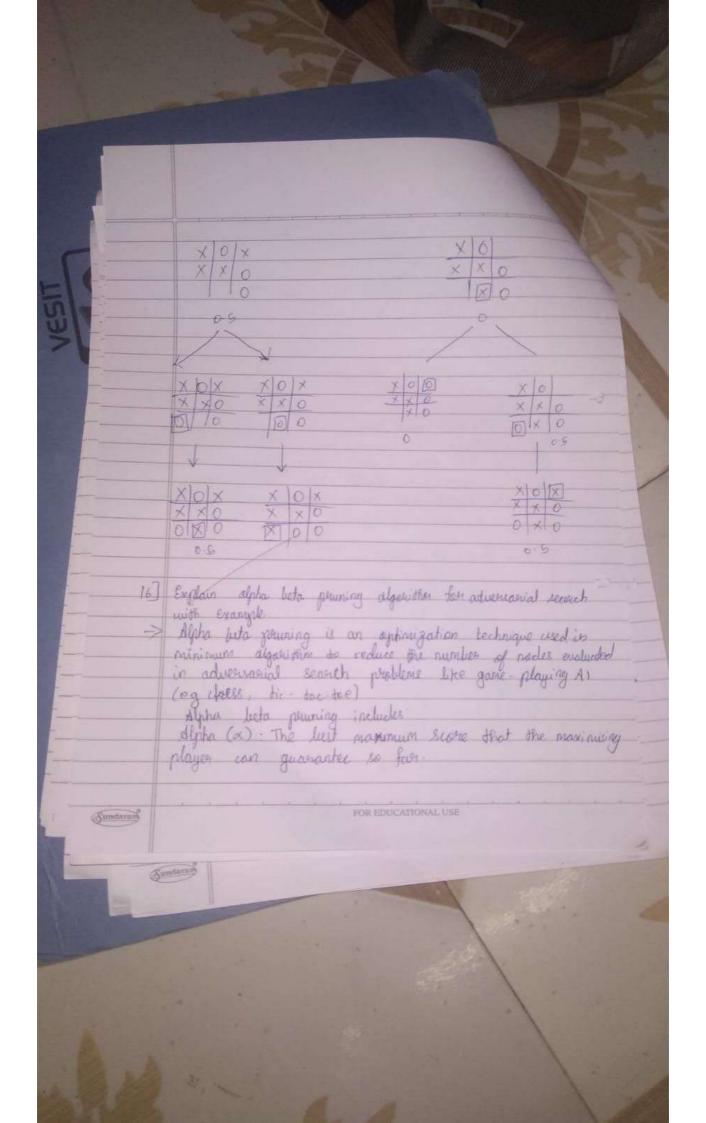






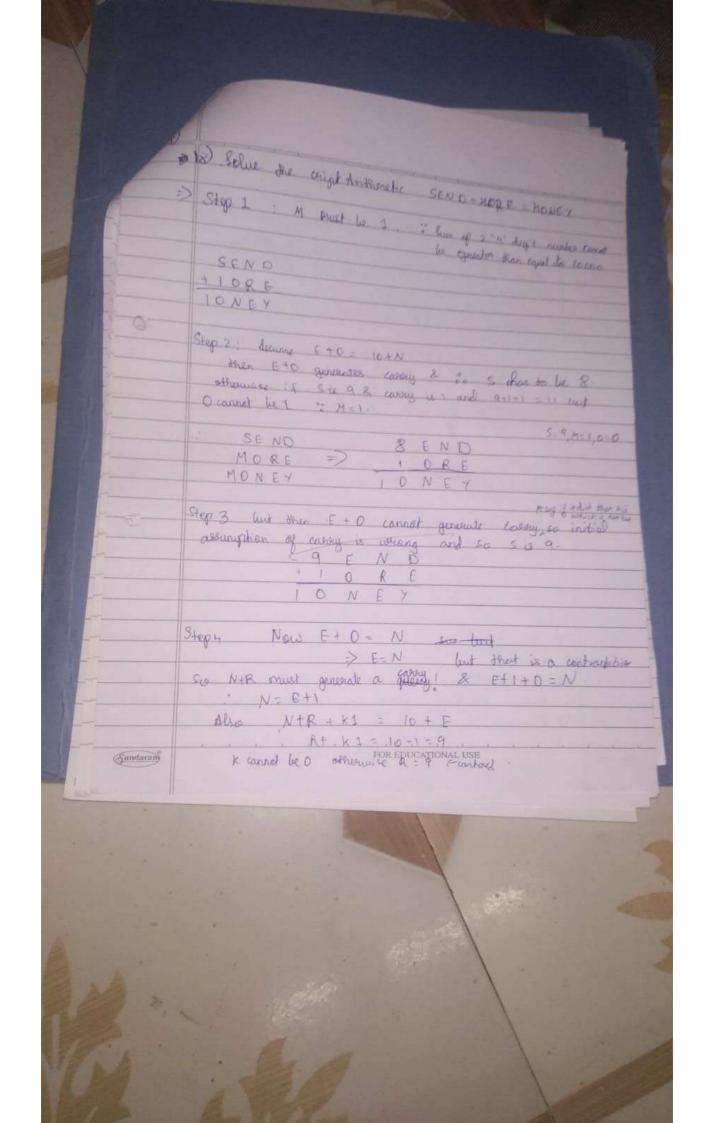


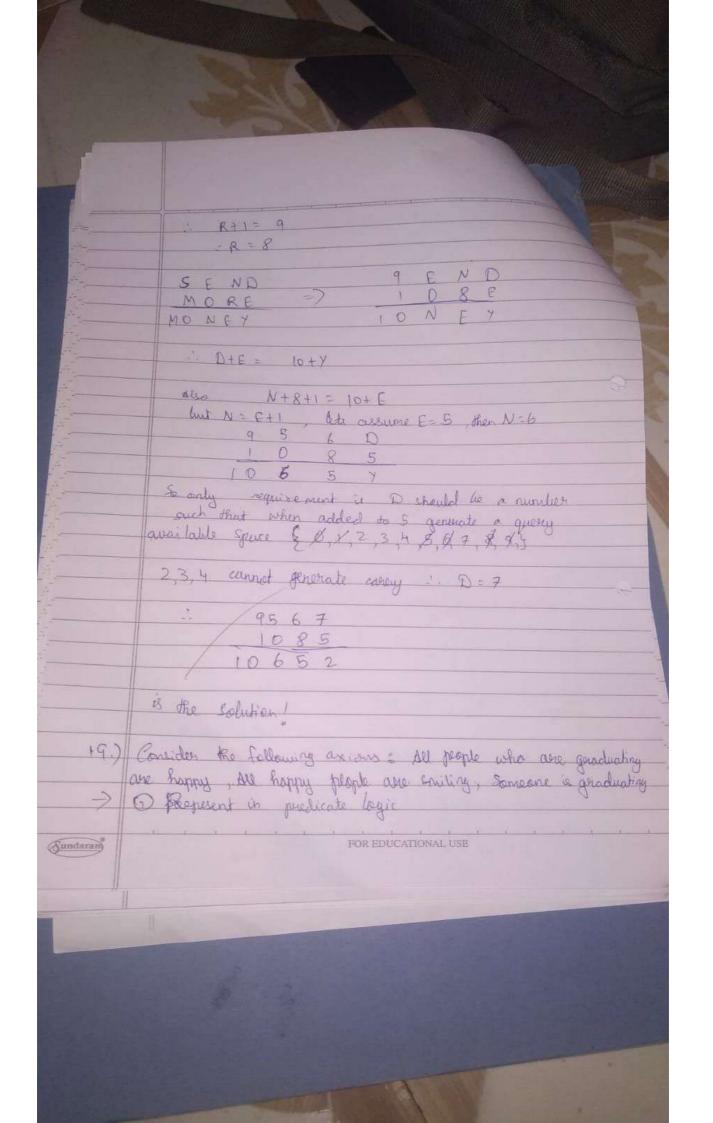


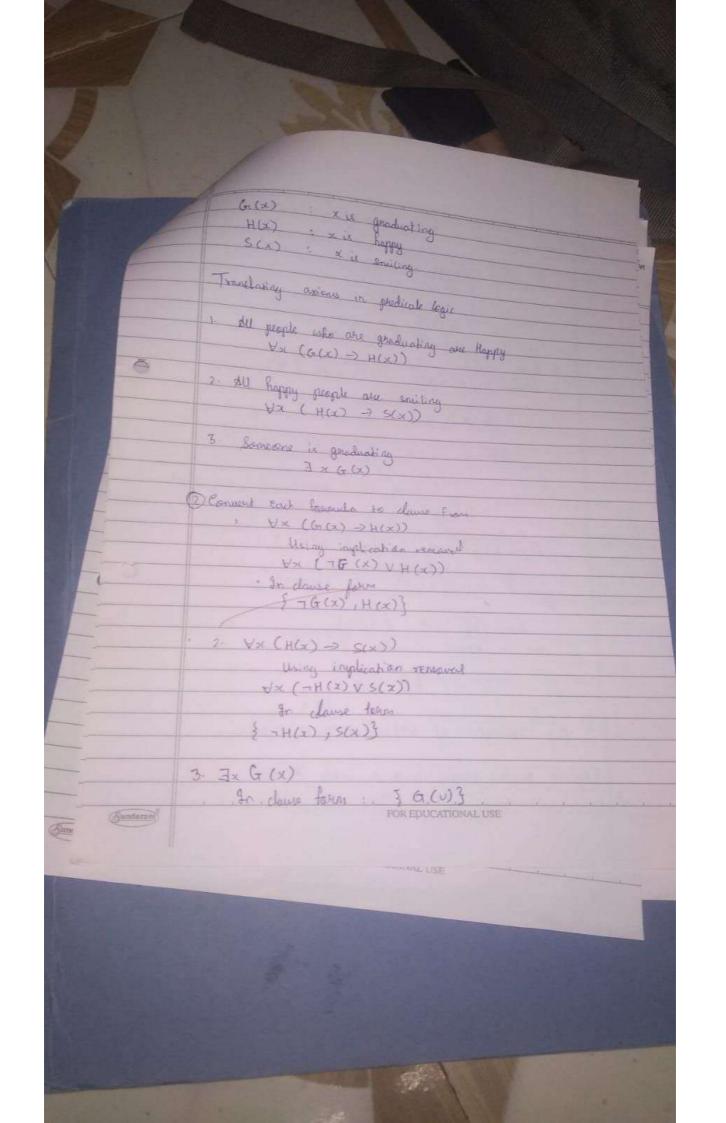


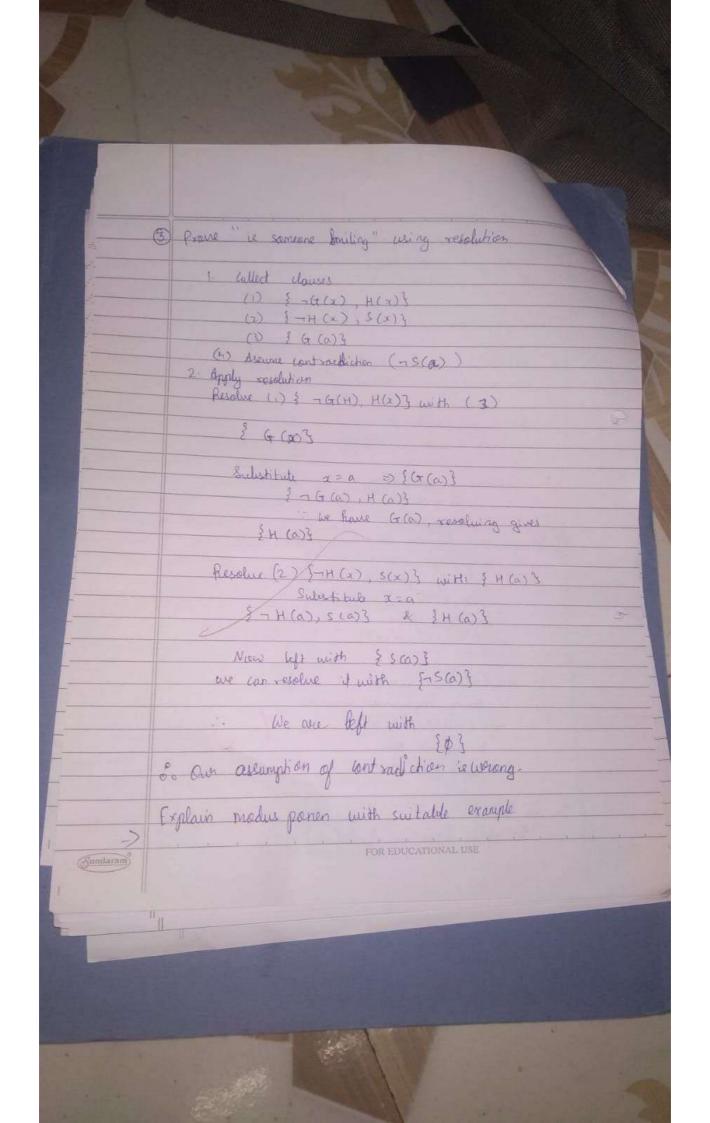
Reta (B): The best minimum scarce that the minimizing player can quarantee so far The algorithm gives branches that will not influence Example: Mare Min 1. Start at root node A · check left our gode (child of A) check first child value = 3 > update \$=3 * check second child value = 5 > & remains 3 . His node setuens 3 to Max Right him node (child of A) · check first child : value = 6 -> B=6. · Hore a = 3 at MAX node but B(6) > A(3) to no punicy . Explose 2nd child (a) > Here pruning will occur · MIN node already has a value 36 it will never change 9 & so we power the node with value 9. 4. Max value = 6 17) Explain WALMPUS would arrivement, giving its PEAS description Explain how percent sequence is generated. The warpus would environment is a simple good-based environment, used in AI to Study intelligent agent behavior undaram

In uncertain environments It is a tuen haved environment where an agent must navigate a cause to find gold while awaiding hazands like pits and a monster called wesayous PEAS: I the agent is removeded for greathing gold and exiting safely Penalty is impured too falling into pits and getting eater by muryrus 4x4 gold would containing the gont wumper, pits, gold A. The agent can move forward, left, Right, shoat, direct S. Agent pencei nes efench (near munyme), breeze (near a pit), glitter (near gold), lump and scream Rescept Sequence generation. It is the history of all peraphons neceived by the agent At each time step, the argent At each time step the agent purceives information lived on its current location and succeedings. Example percept sequence. 1. Agent stants at (1, 1): No liverge, no steach, no glitter > safe square 2. Agen) maves to (2,1) Broeze detected -> + pet is rearly but not in awarent Square) 3. Agent moves to (1,2): Sterch detected - wampus is in adjacent cell 6. Agent moves to (2;2): lylitteer defected -> gold is here. 5. Agent moves back to (1,1) and clints out Sundaran

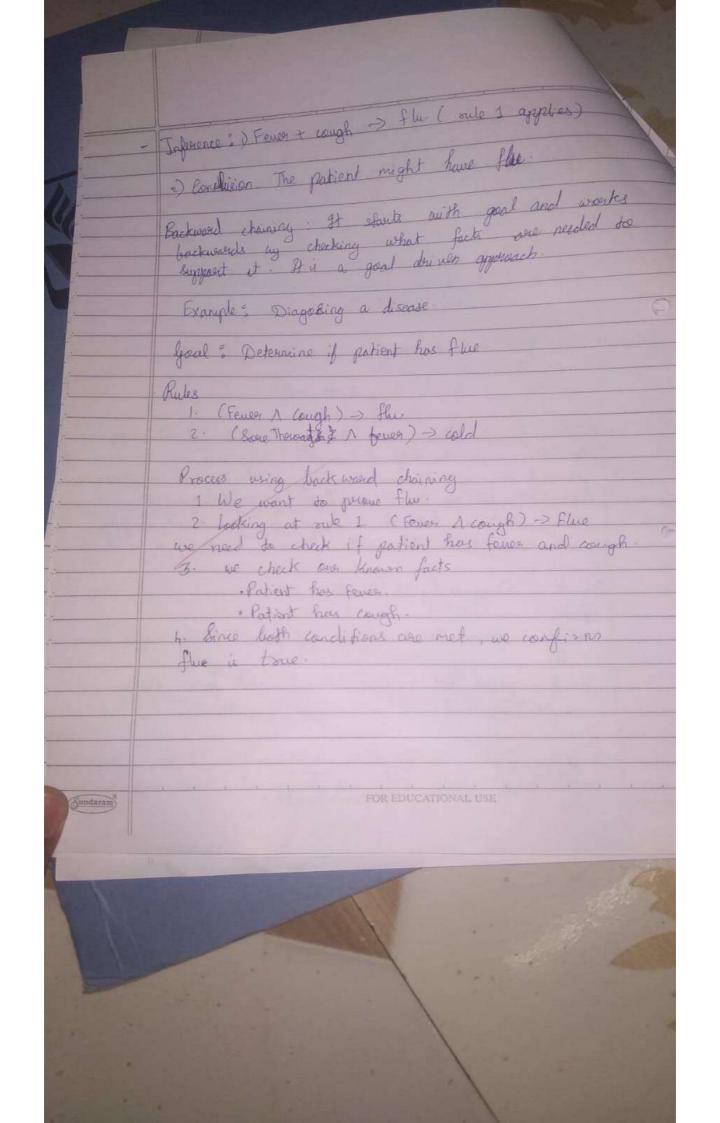








propositional logic that allows us to deduce a from a conditional statement and its anteredent It follows the form 1 POD (if P then 8) 2. P (Putrue) in (R must be true) Example: If it rains, the ground will be not : P-19 2. It is raining of P Ground is wet \$ >09. 21 Emplain forward Having and chaining & backward chaining algorithm with the help of example forward chaining - It streets with given facts and applies inference studes to desire new facts until the good is reached It is a data deiven approach because it begins with known data and works forward to reach a conclusion Example Diagenesing a disease + If a posson has a fewer and rough they night have 2 If a person has a serie thousalt and fencer, they right have cold Facts: FOR EDUCATIONAL USE has cough o the patient has a Sundaram



Explain Frenchise Despening search with example

Depth Limited search (DIS) is an uninformed search

algorithm that modifies DFS by introducing a depth

limit I preventing exploration beyond the defined

level. This presents infinite loops in graphs but

exists missing goals beyond I. Therestive Deeplaney Search (IDS) combines DLS with BFS by iterating to after incrementally increasing the Lepth limit Example Initially the depth limit is a for iteration 1. Wodes Visited = A Good not Found Growthian 2, Limit = 1 Nodes visited = A-) B->C Goal not found Nodes visited: A-SB-> 0-> E-> C-> F-> GT Grade G & Sample FOR EDUCATIONAL USE