

### **Problem Statement -**

Technology should ask question depend on student's answer and difficulty level of question.

e.g Delhi is capital of india

True

False

If student gives correct answer then system should give medium difficulty level question should be given to user. Difficulty level of question should be automatically increased or decreased depend on user interaction.

### **Solution -**

According to me can come up with the solution using iterative algorithm

- The question to be asked is selected according to the student's answer ability.
- Obtain the answer to the asked question.
- Answer is then sent into the system.
- Our system assigns some score according to some rules.
- We repeat above step, if the total score cross threshold score we increase question difficulty level.
- Follow all above step until termination criteria is met.

\_\_\_\_Algo. end\_\_\_\_

Additional

- Initially we don't know student's prior ability:-
  - set student's ability to 0.
  - so we pick a question from any section like easy or medium.
- We should give a weighted score according to question difficulty and student ability.

## FLOW CHART

