

Experiment 10

Pseudocode:-

```
START
// Step 1: Collect student data
Input: Student answers to questions, test scores, homework results
// Step 2: Analyze performance
FOR each topic in curriculum DO
    Evaluate student's understanding level
    IF performance below threshold THEN
        Mark topic as weak area
    ELSE
        Mark topic as strong area
    ENDIF
END FOR
// Step 3: Diagnose learning gaps
IF weak areas found THEN
    Generate personalized learning plan
    Suggest extra practice and resources for weak topics
ELSE
    Encourage advanced or revision material
ENDIF
// Step 4: Provide feedback
Display personalized report to student and teacher
END
```

Diagram:-

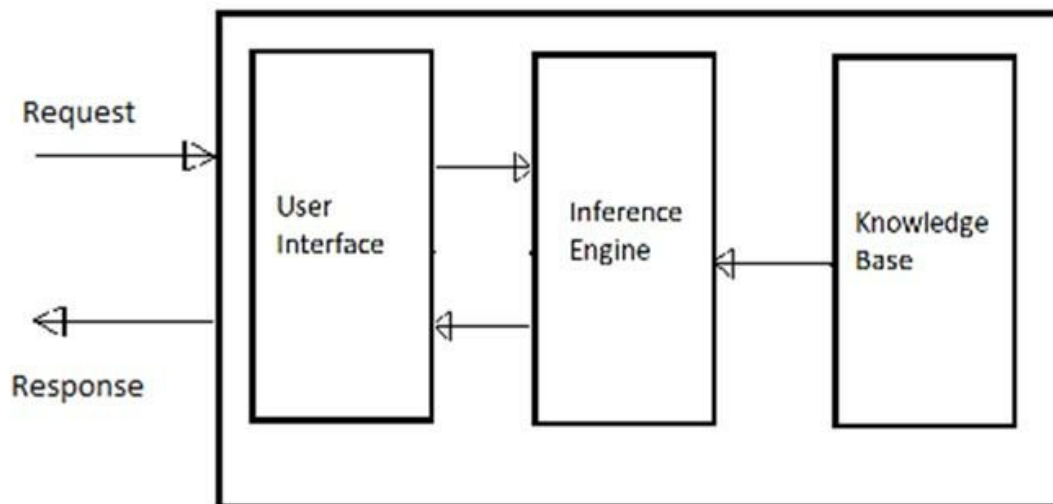


Fig:- Alex Working