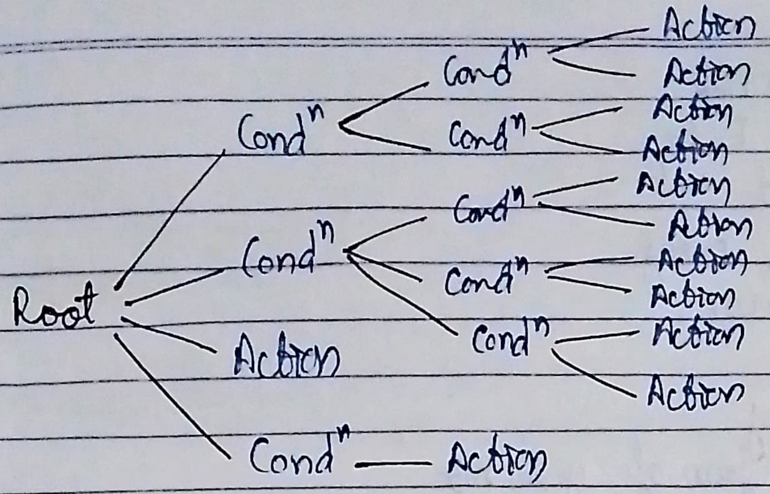
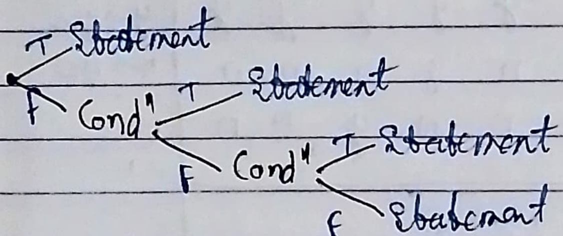


→ representing condⁿ & their actions.



Logic Contructs
- → Sequence
- → Selection → Decision making
- → Repetition

5 Decision Table

→ ~~tabu~~ tabular representation of condⁿ & actions i.e. of DECISION Tree.

It has 2 parts :-
- → Stub
- → entry

upper part ←	Condⁿ Stub	Condⁿ entry → upper part
lower part ←	Action Stub	Action entry → lower part

It has 4 variants
- → Limited Entry
- → Extended "
- → " entry
- → Else form

i) Limited Entry

→ entries in form of yes/no

Cond^n Stub	Cond^n entry				
	1	2	3	4	5
Employee exists	y	y	y	y	y
Employee grade (1-10)	n	y	n	n	n
Employee grade (11-20)	n	n	y	n	n
~~Acts~~ DA=10%, HRA=20%	✓				
DA= 15%, HRA =25%		✓			
DA= 20%, HRA= 25%			✓		

Action Stub

y→yes
n→no

ii) Extended Entry

→ we can write values to entities

Cond^n Stub	Cond^n energy				
	1	2	3	4	5
Employee exist	y	y	y	y	n
Department					
Grade	5	6	2	3	-
Salary Rate	DA = 10 HRA = 20	DA=15 HRA=20		DA= 20 HRA=20	

→ It removes else form

why need diff. tools ?
- → precise
- → ambiguity
- → requirement are clearly understandable

→ Also K/a & mixed entry (mix of condⁿ & action stub).

6) Structured English
↳ similar to Pseudo code

→ uses a kind of pseudo code
→ borrows from structured programming

Eg:
```
if (employee exist)
{
    if (grade==1)
    { HRA = —
      DA = —
    }
    if (grade = 2)
    { H
      =
    :
```

n-bit CPU
↳ Data Bus size is of n bits

True n-bit CPU	Pseudo n-bit CPU

→ internally data bus is of other size & externally data bus is of another size.

→ used to define condⁿ, action, etc.

② Requirement Specification / Software Requirement Specification (SRS)

→ once RA (Requirement Analysis) is complete, requirements must be specified / written.

→ This written document is K/a SRS.
→ SRS forms the basis of software development
→ SRS bridges the communication gap b/w client, users & developers

Components of SRS

i) Functional Requirement → functionality / function of a system
ii) Performance " → Time / Space management
iii) Design Contraints → Constraints & limitation
iv) External Interfaces → how communicate with outer world.

After SRS, analysis freezed & designing starts.