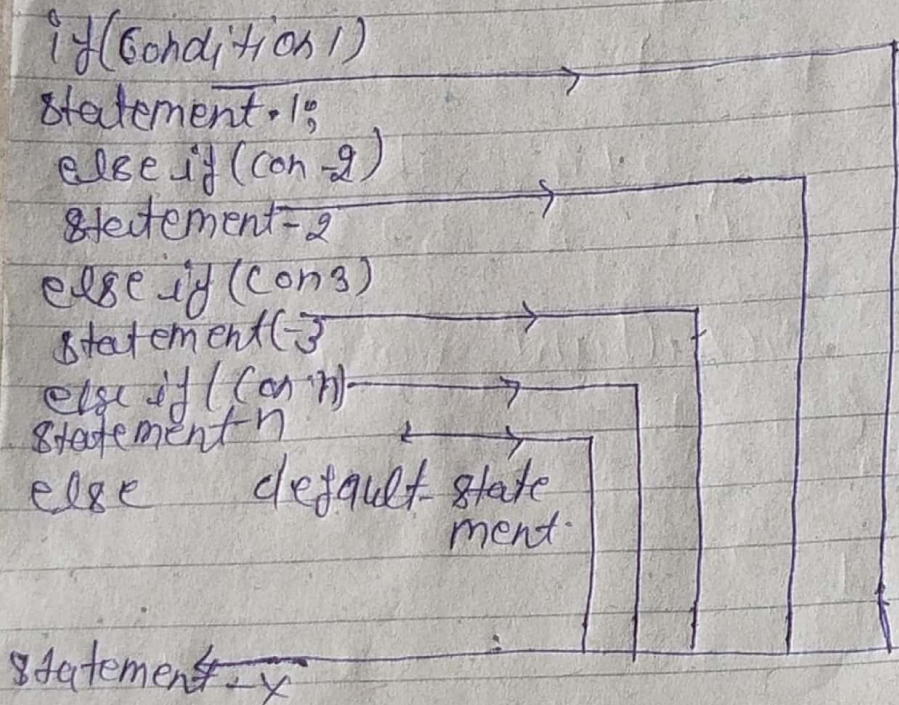


## Sec -> 4

3 As

These is an another way of putting if's together when multipath decisions are involved. A multipath decision is a chain of if's in which the statement associated with each else is an if. It take the following general form



This construction is known as the if-else if ladder. The conditions are evaluated from the top to downwards. As soon as a true condition is found the statement associated with it is executed and the control is transferred to the statement-x.

when all the  $n$  conditions become false, then the final else containing the default statement will be executed.

following are various disadvantages of if-else-if ladder

- ① As the number of conditions goes on increasing, the level of zig-zag form of if-else ladder also goes on increasing. As a result the whole program creeps to the right.
- ② Care needs to be exercised to match the corresponding if and else.
- ③ Care needs to be exercised to match the corresponding pair of braces.
- ④ When nested-if increase, zig-zag form of if-else ladder increases as well as it becomes difficult to understand the program.