Design of control

A control unit- generalis a set of signals that we is syn with of the master clock.

-> Turo major operations perform by control units

1) To jetch the data from the main memory delismines the decice and the operations envolved with it.

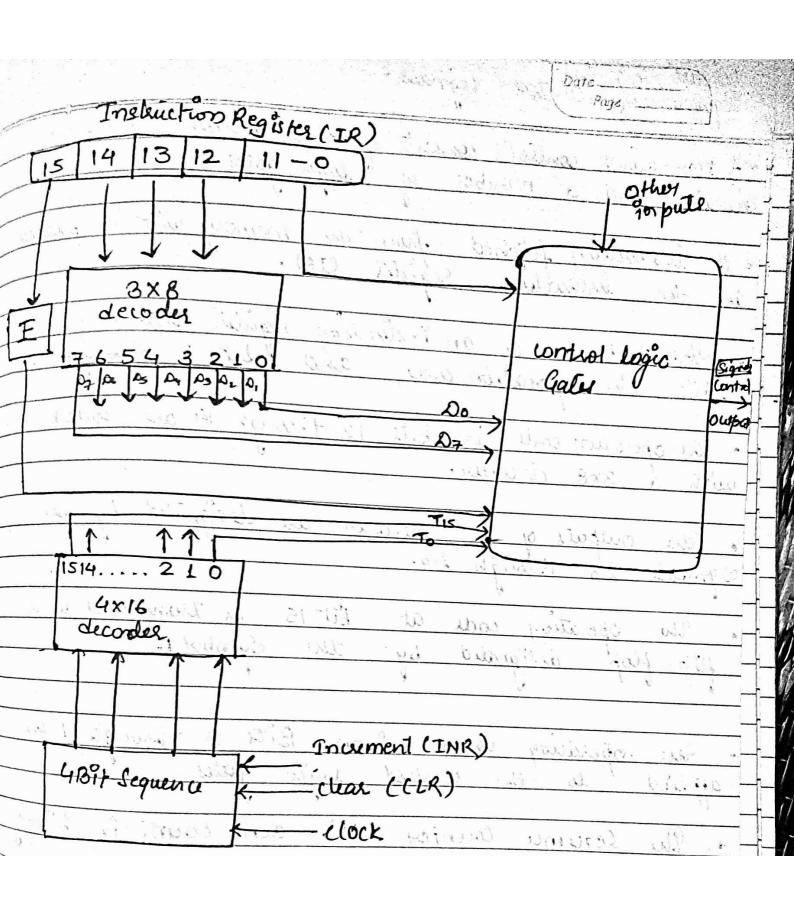
2) Produce control signals to execule the operations.

Types of Control unit

- 1) Hardwired Control
- 2) Microprogrammed control

1) Hardwird Control

This organization involves the control logic to be implemented with gates, flip flops, decoders, and other digital wrants



· A Hardwird Control consists of two decodors, a sequence country, and a number of logic gates. in the instruction Register (IR). The component of an instruction register encludes:

I bit, the operation code, and bits 0 through 12. uith a 3x8 clecoder. Ofmbol Do thlough D7. · The operation code at bit 15 is transferred to a flip-flop designated by the Symbol 1. · Ru operation vodes from Bits O through !! ale applied do - lu control vogic gades. from O through 15.