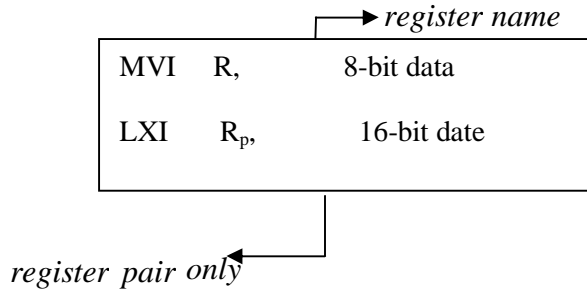


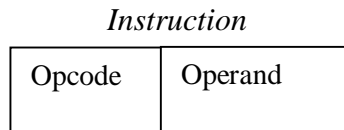
Immediate Addressing Mode:

The data (8/16-bit) is specified in the instructions itself.

They are instructions of either 2 byte or 3 byte long.



The instructions containing the letter 'I' indicate the immediate addressing mode.

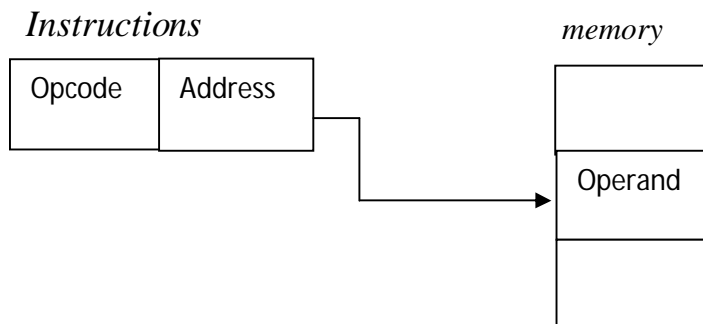
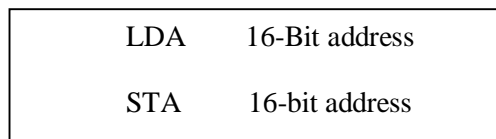


1. MVI B, 10H : this instruction will move the immediate data 10 H into the register B.
2. LXI H, 4050 H: this instruction will transfer the immediate date of 4050 H into the memory to(M) which is pointed by H-L register pair.

Direct Addressing Mode:

The 16 bit address of the operand is given within the instruction itself.

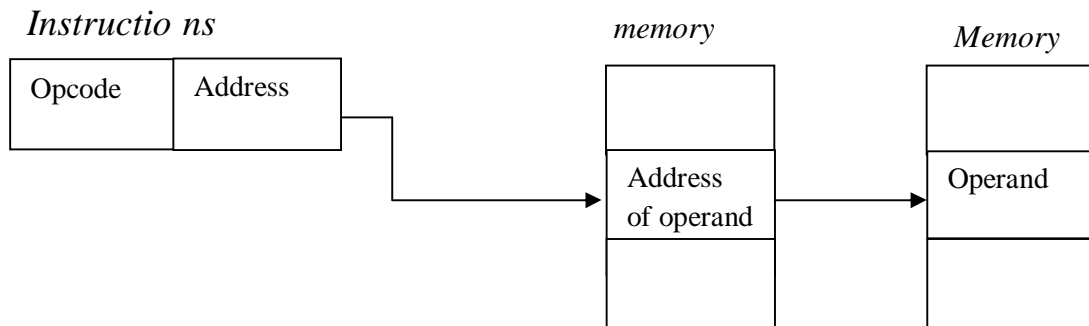
They are 3-byte instruction



1. LDA 2010 H : This instruction will load accumulator directly from the memory location 2010H.
2. STA 4000H : This instructions store the contents of accumulation into the specified memory location i.e. 4000H.

Indirect Addressing Mode:

The instruction reference the memory thorough register pair i.e. the memory address where the operand is located is specified by the content of register pair.



1. 3 byte
2. MOV B, M: this instruction will the move the contents of the specified memory location (M) pointed by HL register pair into the register B.
3. MOV M, B - this instruction will be contents of register be into the specified memory location M pointed by HL register pair.

Implied /Implicit

1. The implied addressing mode does not require any operand
2. The data is specified within the opcode itself, they are 1-byte instructions
3. The data is supposed to be present generally in the accumulator
4. Ex. CMA, RAL, RLC, RRC, RAR, CMC, STC, XGHG, is the examples of it.