analog to digital converter through 8255 with 8086.

Signals which due available to in 0800 ADC which are to be interfaced. Here we have three signals, which connot (ontrol the conversion operation. These are:

1. SO((start of conversion): This signal is input to the 0800 and tells the convertor when to start the conversion process.

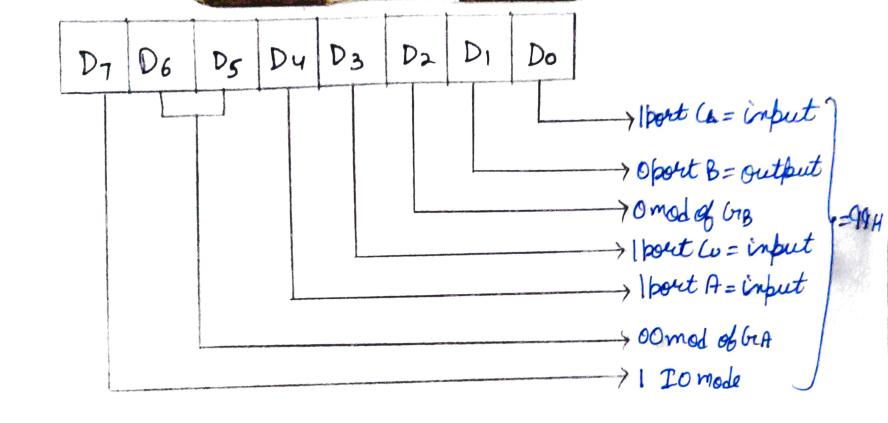
2. EO (Cend of conversion) - This is on output from the converter and tells that conversion process ends.

3. OE (output enable) - This signal is also input to the 0800 and tells the converted digital signal.

In this interfacing diagram the SOC and OE signals are interfaced to the PBo and PB, pins of 8255 and the EOC is interfaced through the PCo pin of 8255. The digital output is made available through the port PA.

The addresses to the ports and the CWR are:

The Control word format and the Control word is shown in the diagram -



The data to start the conversion process, end the conversion process and to make the output available ore:

D ₇	D6	D5	D4	D3	D2	Dı	Do	Hex Code OH	Process
				0	O	O	0	OH	506
O ^	0	0	0	O	0	(0	02 H	OE
O	0	0	0	0	0	0	I	03H	£ OC