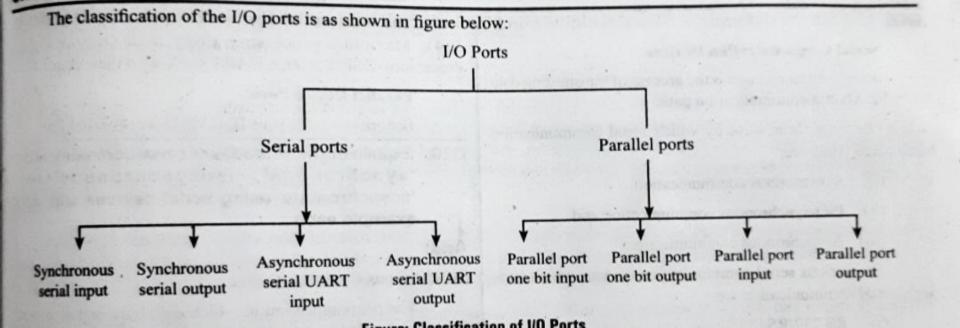
## Serial Port

A serial port is defined as a port used to provide read and write operation in which bits are transmitted one after other i.e. serial port employs a serial data transmission. The communication is carried out over a single transmission line at regular intervals of time, generated by a clock. The number of data signals determine the number of clock pulses required for transmission. It is used when the source and destination stations are located at short or long distances.

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## Parallel Port

A parallel port is a port in which read and write operations are carried over multiple transmission lines and all the bits are transmitted at once. The data is transmitted within a single clock pulse. It is used when the distance between source and destination station is short. A parallel port communicates between ICs or wires of the same board.



Examples of various 3/0 Devices:

Example

. Sexfal Input

- Actio Input, video Input, Dial tone, Network Input, transceiver Input, Scanner, Remote ilp and Serial Ilo box Ilp.

a. Serval output - Audio output, video olp,

Dialing number, NIW olp, Remote

TV Control, transceiver olp, multi- processor Communication and

Serial I/o bus 0/P.

- 3. Serial UART Input Keypad, mouse, Keyboard, modern, character Inputs on Serial line.
- 4. serial UART out put modern, printer, character office on serial line.
- 5. parallel port single bit I/p (1) Completion of a revolution of a wheel.
  - (ii) acheeving preset pressure in a boiler.
  - (iii) exceeding the upper limit of the permitted weight over the pan of an electronic balance.
- 6. parallel poit single bit output ii) pwm olp for DAC, which controls liquid level, temporature, pressure, speed (81) angular position of a notating shaft (81) a d.c motor Control.

7. parallel poit Input - (i) ADC Enput from Liquid level measuring sensil (81) temperature sensol (81) pressure sensol (81) speed senson. 8. parallel port output - (1) Multilane LCO display matrix unit in a cellular phone to display on the seveen the phone

number, time, messages, character

Inputs (81) pictogram bit-images

(81) E-mail (81) webpage.