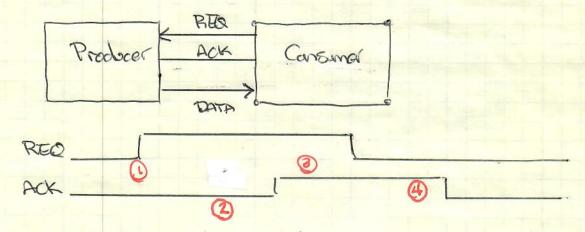
2-time hand shake is an asynchronous method of data interchange between a preducer and consumer (the agents) that relies on 2 signals called request (RED) and acknowledge (ACK)

- · The producer generates data and sends it to the consumer
- The active agent broadcasts on request to transifer data by asserting : REQ.
- The passive agent transfers data when requested then acknowledges the request by asserting ACK.

Active Consumer



- 1 Consumer ready for data
- 3 Producer asserts data then asserts ACK
- 3 Consumer latches data then drops REQ
- 1 Producer acknowledges Consumers batching data by dropping ACK

Ward Statement

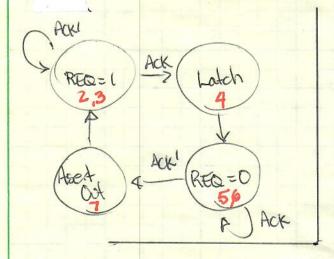
Boild a digital circust that is a active consumer of 8-6-4 data and outputs I if the data is an even number. It does this forever.

Algorithm.

- L while (i) {
- 2. REQ = 1;
- 3 while (ACK == 0);
- 4 X = data;
- 5 REQ = 0;
- 6 while (ACK == 1);
- 7 output = x [0]';
- 8 }

ACK PEE

Cartrol



Detageth

requester

x[0]

register