Sidharth Scela __/_/___ STUDENT REPORT 7 Segment display ULtra sonic Jenson. 2 types of 7 segment 1) Cathode 2) Anode common In anode gdio Vic cd cdc dp Cathode we a have to attach resistors on lines a, b, c, d,e, f, g, dp so that the brightness persoins the same. For Common cathode; To such on a light pinMode needs to betigh For common anode, I pin Mode reed to To operate I display ut would need 8 pm from the ardeino. (7 data whis) And by using a night case we can spend

Uses: Pholog board _/_/__ Each case will have their oven pin Mode settings. But if we want. we have more options i) we can use a 7 segment deledes but we will have to use 2) we can use a Shift register (LIFD)
74HC595. we can control multiple
7 registers.
Using dainy - chapting. The datalines und are I and 2 are for latch of clock. Latch is high when those stores. Jæ 1) simple > regnent → 7+1 pinnods 3 4 pin mods 2) Duodel - 3 jein modes 3) Shift, lese function abstract (datapin, clockfin, Worker, value) be can me mon vyrter MSBFIRST

for mon hydrigs but data LSBFIRST:

line regulard are still 3.

volue => 11,79,18,6,76,36,32,15,0,4)

revered so 1 2 3 4 5 6 7 8 9

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177777

ultrusonic sensor MS SR-04 waves with f > 20 RM2 line library: New Ring for moothing Trig - rende SV 310 m5 pulse well send 8 40 KM2 pules Echo - will be high for 38 ms if no oyest but if shed of con her $0 = \Delta t \star c$ D = 500 US x 0. 0343 cm/us = 8.575 cm for (20°C) dry ais.

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un pulse In (echolin, 11911); function 2 cm = range = 400 cm others swalid. occuracy off by ±0.5 cm inroway because of Temps Kinishy. C=331-4 + (0.606 x T) + (0.0124 x & H) for There DAT 22 / DATII Une Adapust ampred belray. We see read delay & for Loop to get MAT; We can also page of whom board on to & Trig ph. Uses: To know if like is parked sofely.

To get the clearance of where I lody.

To avoid getting rear-codd. Tail gating