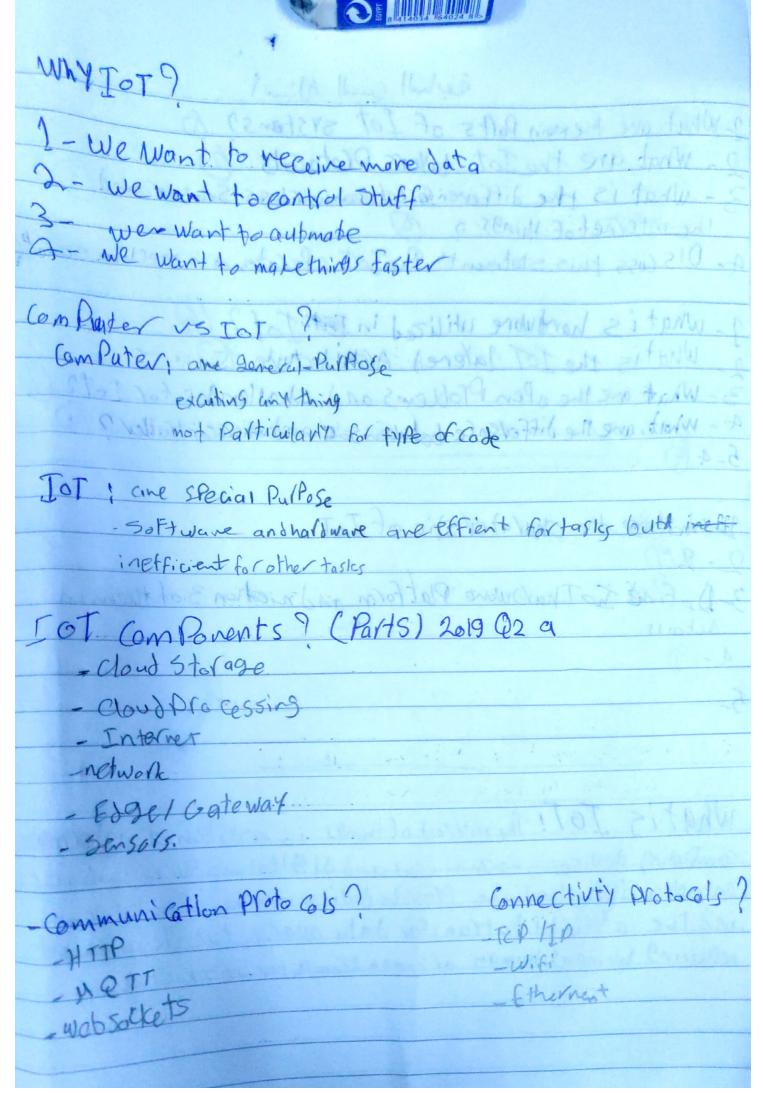
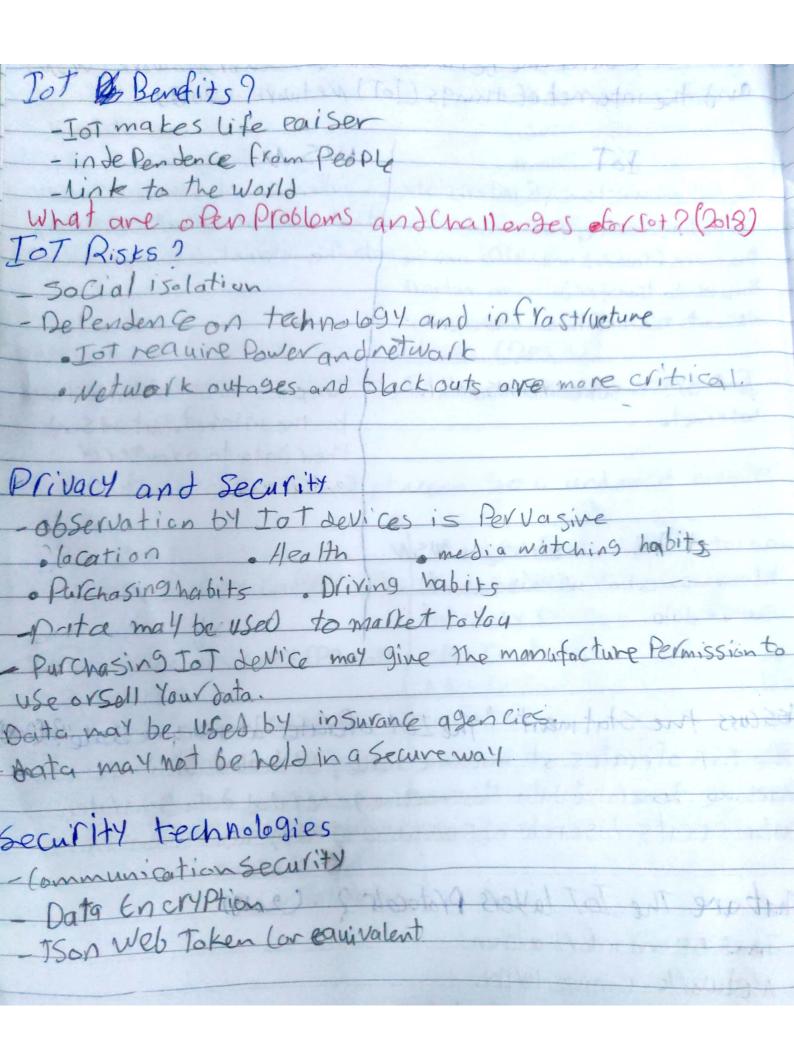
âphul jimil âlent 2- What are the main Parts of Lot systems? 6 2 - What are the Jot layers ProtoGIS (2) 3 - What is the difference between wirless sensor and (3) the internet of things ? (9) 4- Dis Cuss this stabment " The Jot oferats of a machine scale of 1- what is hardwore utilized in Est Tof? 6 2 - What is the IoT latered Architecture to 3- What are the open Problems and charlenges for Lot? 4 - What are the difference between 505 and microcontroller? 5-4(4) 2 what one the angrater stic of Ist 3- Define To Thandwore Platform and meetion 3 of them in 4-(9) 5-What is 101! The internet of things is asystem of interrelates computing devices, meananial and digital machines, object, animals of Perle that are Provided with unique identifier and the ability to transfer data over network without redhiring human 2 human al human 2 Computer interaction



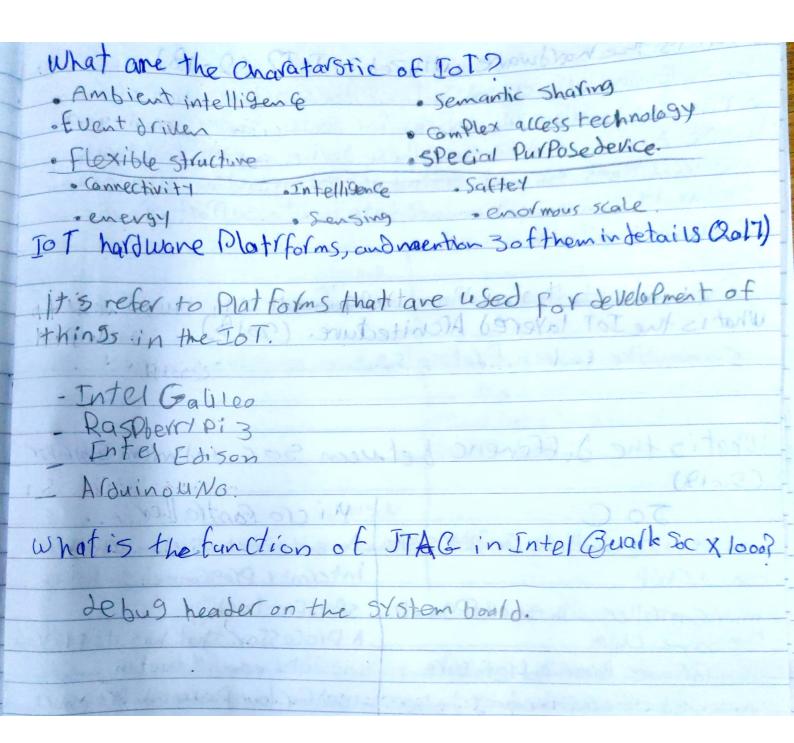


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The Fot operates at machine scale, by dealing with macine to	
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What are The Tot layers Protocols? (2019)	
a cinquintormotton	
a 1-1-1-16 Cappertivity.	
3 Contion Malessin all	
4. Application layer.	

What is the hardware utilized in IoT? (2018) The hardware utilited in Iot Systems includes devices for a remote da Sh board, devices for Control, servers, arouting or bridge devices and Sensors. These devices manage key tasks and functions such as system activation, action specifications Security, Communications and Detection to Support-Specific-Doals and actions. What is the IoT layered Architecture (2013) Same like tayers Protocols. What is the difference between soc and micro Controller C20181 4 i cro Controller 50 C more like complete computer system. An embedded System which is internally Programmed to Perform on a Chip microComtroller with Small FPgaoh specific task A Processor that has its Program the Same Chip - Used for more Powerful processors and data memory built in - Used for low Powered Professors which need external memory to be with only Small amount of menory Useful Include I/o drivers for bigger hardware. Small embedded control apps - more geared towards complete minimal user interaction and

flexibility and user interaction.

littlearno flexibility.



aslung lator ELGTON DESTON What are Embedded system? - Computer-based systems that don't appear to be computers Tight Constraints for embedded system. - manufacturing cost - Design Cost - Derformance - Power -Time to market very different from traditional Softwore engineering Co-design Design Computer System design process where the Process of defining the Scientific Problem requirment elements of a SYStem influence architecture design Suchas aranitecture, modules and ComPonents Intellectual Property (IP) Core. - An Integrated Circuts that Performs one function cheap in high yolune very useful for Common task · Notwork Controllers (Ethernet, CAN) a Audio IVideo Caudio Codec, VCA Contoller) must interfact with the micro controller. FPGA: Hardware that can be configured via RAM faster than SW, slower than ASIC No fabrication preeded.

intel Calileo Calabilities 10 100 camponents:= 1-450 most Port 2-Powerful functionality with low Power consumption 2 - USb Clivent Patt 2 - 400MHz Speed 3- Digital Ping 3-32=6it width 4- Analog Pins 4 - real time 5- Power Pin, 5-16 kB L1 Cache 6- Pin 13 led 6-84B Aash memory 7- Reset 7- 11KR EEPROM 3 - Power indicator 8-No PoPu 0) - 5 V Power 9- No Video Support la-Various apps as robotics & IoT 10-51) activity indicator 11- 1 510 Card 12-Ethernet 13- Report Button 4- RS.232 POH 15- IOREF Select Intel Galileo Gen 2 development boald is a micro controller board based on the Intel Quall 500 X 1000 application Processor, a 32-bit Intel Pentium brand systemon Chip (SOC).