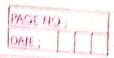
				Jessica Brago		
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Francisco L. C. Company	Cloud	1 Computing As	mapier	ent	in the party of	6.
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1) Explain architec				Section of the sectio		
(Ans. 1) The Internet o					use technolic	gies
that interact	with .	the physical wo	ald.	<u> </u>		- King S
2) The block die	warbi	Shown below	prons	tes a high-les	nel auchite	dural
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		(sensors, Actuata	7		Fig. 1 Million and Art 1	
		gh-level architect				
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i) Iot Device	(ات ح	IOT bateway	ii) Edg	e Infrastructure	iv) coud a	envices
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		The state of the s		Marinda St. According		

1) Sensors: These are electronic circuits that continuously read the
data as designed. These could be RFID, GIPS, Accelero meters,
Gights cope lettering alless alless
2) Actuators: These are electronic circuits that can not only read
data but also take actions. For example, if the
room temperature goes beyond a contain limit,
an actuator can automatically power on or power
Off air wonditioning system.
dork dayonak kurul
ii) For Gateway:
- There would be several Tot devices in an industrial setting.
- For example, if you are using a connected car, there could
be several care on the road from the same manufacturer.
- The various data points from the lannected care such as
engine health, mileage, driving style and other can performance
siciated parameters would be tracked by the manufacturer for
providing preventive maintenance and breakdown support.
- To optimize the number of direct connections to the devices,
an Iot Gateway is used ?
- An Iot gateway aggregates data from several devices and
processes them.
- The pre-processing is required so that any the meaningful
information is sent further.
- Tot donces would would data at a milli-second level.
- such high granularity of data may not be required to be
Bent further in its entirety.
- For gateways, thus, process the granular data from
several devices and send them further.
iii) Edge Infrasmuture:
- Once the Tot data is synthesized at the for gateway,
it is ant to edge infrastructure.
It is sent in any



to the user to avoid sending large volume of data even the network. Tou can sun analysis functions, execute based on machine other devices generally.
network. - You can sun analysis functions, execute based on machine bearing models, keep data in eyer, and communicate with other devices getweety.
teasining models, keep data in eyer, and communicate with
other devices generally.
Then devices gewoly.
You can further fitter device data and only send newscary
information to the cloud.
iv) cloud sentus and Applications.
- Finally, the IoT data can further be analysed using would
services and resources.
- You could have several Io's based applications such as lar
predictive maintenance, health monitoring, troffic monitoring
system home automation system on anything else that would
consume the data from the ToT devices and produce meaningful
information and actions.
istantifica to bout only a page 7
Ans 1) REID to continue on REID tag?
Ans .) RFID tag contains a circuit and an ontenna.
in order to identity items
8) REID's short for "radio frequency identification" and use radio
frequency identification
4) These radio waves transmit data from the tag to a reader, which
then transmits the information to an REID computer program.
s) An RFID tag may also be called as an RFID chip.
6) RFID tag works by transmitting and rewining information via
an antenna and a microchip-also sometimes called an IC
그 그리는 이 물로부터 바다 보고 그는 가게 취소에는 마음이 들었다고 있다. 그는 그리고 있다는 이 그리고 있는 그는 이 그 바람이 그 그리고 있다고 있는 그는 그는 그는 그를 먹는 것이다.
7) The murochip on an RFID reader is written with whatever
The microchip on an RFID wader is written with whatever . Information the west wants.

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3) There are a main types of RF	ID tags:	activ	word passing
3) Acther AFID tags have their our	D POLDEN	801141	e Loheveet Cassive
AFID tags are orthrofed using	external of	oues	SOULIS
10) You usually see passive RF1	IP tool a	5 abox	of whom a the trac
gets outwated when it comes	reast -the	PEID	useday bank
			A CASE OF STATE OF ST
and the same of th	Processina	Center	In it has not
	12	3 Proce	ess received
1. constantly scan		(A)	ormation
RFID Tag 2. Sian RF Tag	REID	Reader	pormation (v)
Information			
Fig. Working of	REID		1 10 10 10 10 10
The way was the same of the sa		ro i de	A I A MARINE
3) Explain amort power guid a	nd email	المناه	Aria 2
And Smart power grid;	boot,	TI DULK	ung GARAGE
- A power guid manages - the en	don't and	distri	oution description
(electricity).			I in assisming
- A smart power grid "u a mo	dernized	guid t	nat enables hidisestical
flows of energy and user tw	o~way o	Durmar	rication and control
capabilities that creates new			
- Earlier there were only a free	power o	enerati	ing plants.
- The dietabution of energy w.	as the so	le pu	spose of the grid
- But now, power generations	g lesour	e are	distributed into solar
celle, combusion engines (we	ates tuebo	ines)	nuclear power plants
and energy storage system	ns.	niel "al-	1 30 kin 11 0' 8 a a
These resource provide imp	portant be	enefits	such as energy and
economic lavings leduced	system lo	18567	improved resilience
and power quality and	greates	uston	ner participation
- ttie no more just linest	ed to die	tribert	ing the energy but
ensuring. The best diago o	fit ou	ne as	The thousand with the
- Applications are: Smart me	elees, per	note n	nanagement
gud efficiency, custom	ess at p	تمطيبو	u.
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Smart Puilling
9 mart Building:
- A smart building is any structure that uses automated
processes to automatically control the building's operations
including heating, ventilation, air conditioning, lighting,
security and other eystems.
- A smart building uses sensors actuators and microthips.
- It collects data and manages it according to the functions
of the building - a building would be a home office, hospital,
mall or any other establishment.
The infrastructure helps owners operators and facility managers to
1) Improve asset reliability and performance.
2) Reuse the use of energy.
3) Optimize building space utilization
4) Minimize the impact of buildings on - the environment by witholling
emissions and by following other environment friendly measures.
- The building is fitted with several IoT device that concut
of several sensors for various physical elements such as
temperature light recurity etc.
The sensor data is continuously collected and evaluated
by a central system called -the facility controller.
- The facility controlled monitors the entire building
and takes suitable actions such as
1) controlling the building temperature
2) controlling water level in supply tanks
3) Controlling cleitrical power supply from guide.
4) Russding activities in the building.
5) Sounding alaime in case of emergencies.
Facility Controller Analytics, Aztons, Alarms, Reporting
I o 7 Lateway - Louest Data
Temperature light cumulat waterlevel Fire sensors security sensors
Fig. High level Architecture of Smart Building