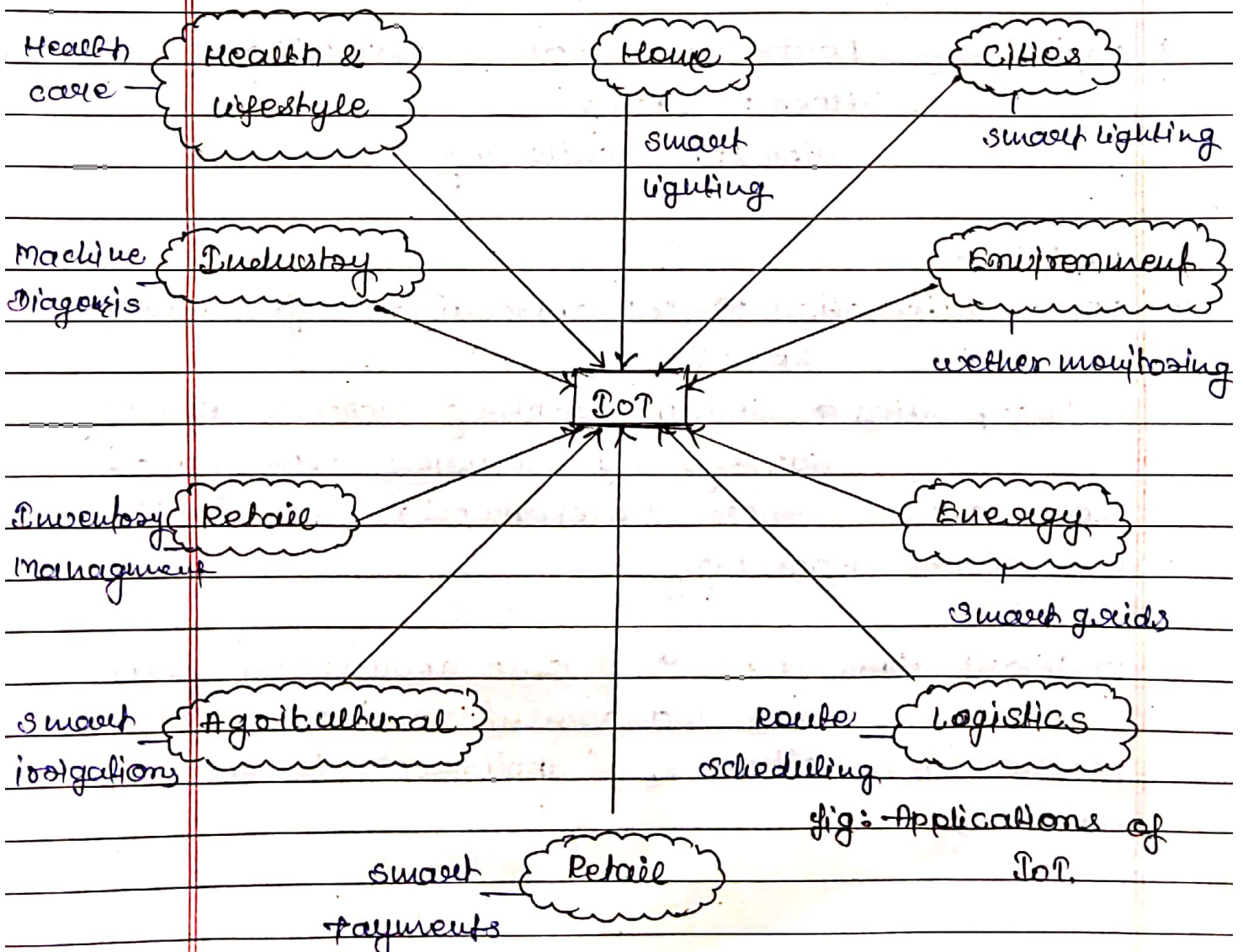Priyanka Jadhav
IoT
Assignment – 03

Q. what do you mean by domain specific IoT and what are the main domain specific applications that are currently been used in real-time scenario?

Ans: when we use IoT in specific domain such as Home, cities, environmental, energy systems, retail known as domain specific IoT.

Health care { Health & lifestyle }

{ Home }   smart lighting

{ Cities }   smart lighting

Machine Diagosis { Industry }

{ Environment }   wether monitoring

IoT

Inventory Management { Retail }

{ Energy }   smart grids

smart irrigation { Agricultural }

route scheduling { Logistics }

fig:- Applications of IoT.

smart payments { Retail }

Scanned with CamScanner

* Home automation — Smart appliances
                         Instrucsion Detection
                         Smoke/gas detector.

* Environment —   Wethea monitoring
                    Air pollution monitoring.
                    River floods Detection

* Energy — Smart grieds
           Renewable Energy systems
           Purogonostics

* Logistics — Route Generation & scheduling
              fleet tracking
              Shipment monitoring

Q2. Explain —
(a) Home automation ➙ IoT applications for smart
                      homes —
(i) Smart cities ➙ Smart lighting achieve energy
                   savings by sensing the human
movements & their environments & controlling
the lights accordingly.

(ii) Smart Appliances ➙ Smart appliances make
                        the management easier & provides
status information of appliances to the useas
remately.

(b) Logistics → (i) Fleet-tracking → Vehicle fleet tracking systems use GPS technology to track the locations of the vehicles in real time.

(ii) shipment monitoring → Shipments monitoring solutions for transportation system allow monitoring the conditions inside containers.

(c) Agriculture → IoT application for smart agriculture -

(i) smart irrigations → Smart irrigation system can improve crop yields while saving water.

(ii) Green-house control → It controls temperature, humidity, soil, moisture, light & carbon-dioxide level that are monitored by sensors.

(d) Health & lifestyles → IoT applications in smart health & lifestyle -

(i) Health & fitness monitoring → wearable IoT devices allow to continuous monitoring of physiological parameters such as blood pressure.

(ii) Wearable Electronics → wearable electronics

such as wearable gadgets (smart watch, smart glasses, wristbands, etc) provide various functions & features to assist us in our daily activities.

(e) Energy → IoT applications for smart energy systems →

(i) Smart grid → Technology provides predictive information & recommendation s to utilize, their customers on how best to manage power.

(ii) Renewable energy systems → Due to the variability in the output from renewable energy sources