Student Name : Vinod Yadav – 20095611 Video : https://youtu.be/TlC0cJD3kCg
Project Repo URL : https://github.com/Vinod2311/Forget-iT

Grade Band	Combined Knowledge	Networking Technologies	IoT Solution	Communication
Base				
Good		• Wireless protocols: Bluetooth, Wi-Fi • Wired protocols PIR motion sensor to Raspberry Pi via breadboard and breakout board	• IoT application Usage of BLE beacons, PIR sensors and, Blynk for low energy consumption, always on application. • Data Processing Raspberry pi calculates appropriate response(LED, notification) from incoming PIR and Bluetooth sensor data.	
Excellent	**Strands used:** • Database: Firebase • Computer system: Raspberry pi, senseHAT, PIR motion sensor, BLE beacon, breakout board to breadboard. • Programming: Linux shell, python	• IoT Framework: Blynk • Messaging: Notification to smartphone via Blynk app • Connected devices: Raspberry pi to PIR sensor and BLE beacon Raspberry pi to smartphone	• Working Prototype	• Video • Git-hub repository • Installation guide on Git-hub
Outstanding				

Grade Spectrum

	Combined knowledge (15)	Networking/IoT Technologies (35)	IoT Solution (35)	Communication (15)
Base (40-49)	2 programme strands present in output. Basic knowledge of each exhibited. (e.g. programming, database, computer systems)	Physical/Data link layer solution. Minimal devices	Basic solution that may form basis of overall application. Sensor focused.	Minimal (1) communication resource used (simple read me) and video.
Good (50-64)	Apply concepts from more than two modules/strands..	Wireless/Wired protocols including network and transport layer. >1 protocol. Interconnected devices.	Solution with clear IoT and domain application. Includes data processing/ gateway function.	Portfolio/repository includes clear presentation, documentation.
Excellent (65-80)	>2 strands as above and including more advanced knowledge and concepts.	Lightweight messaging. Network/API programming. Architecture/ IOT Framework that mediates between high and low level devices.	IoT Application of good prototypical standard. Used to evaluate overall suitability for a production system.	Additional communication resources (e.g. instruction video, learning resources, installation guide)
Outstanding (80-100)	All above, including self-acquired knowledge over and above module content.	All previous to excellent level. Excellent Use of Cloud/IoT specific platforms	Novel solution of clear applicability to specific domain. **Could result in employment offer.**	All the above to excellent level, accessible project platform (e.g. web site)