ASSIGNMENT-6

PROBLEM STATEMENT: Develop an android based FAN regulator using an OS H/w Platform like NodeMCU & actuator [a servomotor]

THEORY:

- SERVOMETER:

Using a servomotor is common in robotics for precise control. It is a rotary actuator or linear actuator that follows for precise control of angular or linear pos", velocity & accelera"

- MATERIAL REQUIRED:

- Arduino UNO
- Servomotor
- Breadboard
- connecting wires

Module works on 5V supply & the signal pins operate on 3.3V, hence a 3.3V regulator is presen in the module itself

- PIN CONNECTIONS:

Sr. No.	Pin on HC-05	Pin name	Pin Number
	HC-06	MCU	
1.	Vcc	Vdd	31st
2.	Vcc	GND	32nd
3.	Tx	RC6 | Tx | Ck	25 th
4.	Rx	RC7 | Rx | DT	26 th
5.	State	NC	NC

6. ~~Enable~~ EN NC NC
[Enable]

- ADVANTAGES:
- If heavy load places on the motor, the dri will increase the current. The motor coil as it attempts to rotate the motor, there is out of step sound"

- High speed opera" possible

- DISADVANTAGES:
- It requires tuning to stabilize the feedback loop

- Peak torque is limited to a 1% duty cycle

- APPLICATIONS:
- Industries
- Radio controlled airplanes
- Robots
- Aerospace industry

CONCLUSION:
Thus I have developed an Android base regula