

## Assignment B5

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Q1] What is Raspberry Pi?

→ The Raspberry Pi is a low-cost, credit card sized computer that plugs into a computer monitor or TV and uses a standard keyboard & mouse.

It is capable of doing what a desktop computer does, from browsing the internet and playing video, making spreadsheets, word processing and playing games.

Q2] Explain GPIO Pin architecture?

→ Pin # 01, 02, 17 → Vcc

Pin # 09, 06, 14, 20, 25, 30, 34, 39 → GND

SDA & SCC - Permit Synchronous Data Transfer.

MISO - Master In Slave Out.

MOSI - Master Out Slave In.

SCK - Serial Clock.

CE0 - Chip Enable 0

CE1 - Chip Enable 1

I2C - Connects Hardware.

TXD RXD

Q3] What are IR Sensors and give its application.

→ An Infrared IR Sensor is an electronic instrument which is used to sense certain characteristics of its surroundings by either emitting and/or detecting infrared-radiation. IR Sensors are also capable of manufacturing heat emitted by an object & detecting motion.

Working Applications of IR Sensors are:

- Night Vision Device.
- Infrared Astronomy.
- IR Tracking.
- Art & History Restoration
- Climatology.