**PRACTICAL-7**

**SUBJECT:** **Embedded Programming**

**SUBJECT\_CODE:** **CAT-851**

**UIC DEPARTMENT**

**7.Write a program to use IR sensor to get output two leds on raspberry pi.**

**Ans:**

**#IR Sensor Module:**

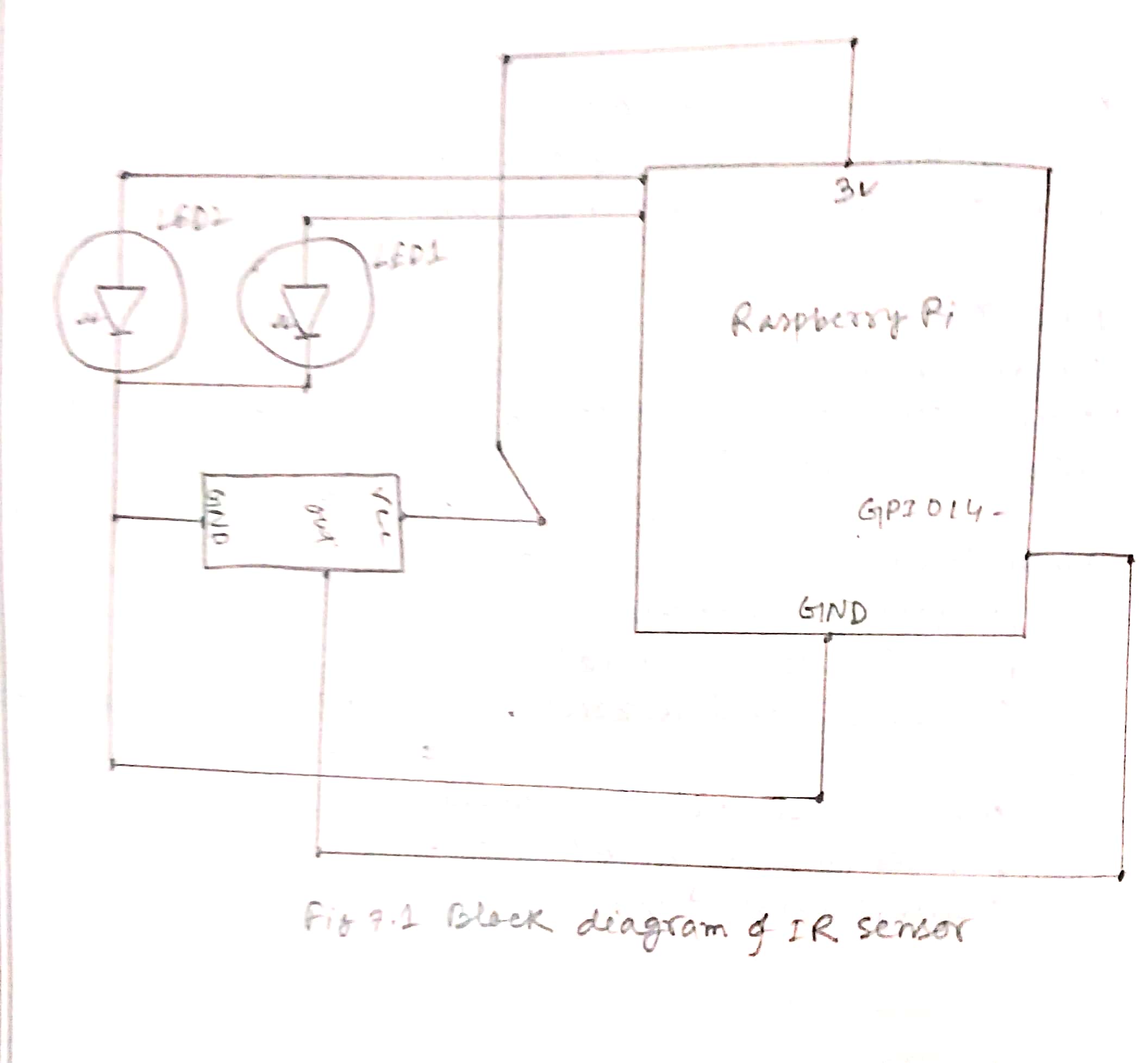
IR sensor are modules which detect the pressure of objects before them if the ouput is present it gives 3.3V as output and if it is not present gives 0V.

**#Material Required:**

1. Raspberry Pi3 b+
2. IR sensor module
3. Red led light
4. Bread Board
5. Jump wires

**#Steps of Execution and Connection:**

1. Build the circuit
2. Write the python code
3. Execute the code
4. Then Led light will going high when there is no object in front of sensor.

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**#Code:**

Import PRi.GPIO as IO

Import time

IO.setwarnings(False)

IO.setmode(IO.BCM)

IO.setmode(2,IO.OUT)

IO.setmode(3,IO.OUT)

IO.setmode(14,IO.IN)

While 1:

If (IO.input(14)==True):

IO.output(2,True)

IO.output(3,False)

If (IO.input(14)==False):

IO.output(3,True)

IO.output(2,False)