Understanding the connectivity of Raspberry-Pi/Beagle Board circuit wit camera.

Write an application to capture and store the Image..

CODE

import RPi.GPIO as gpio

from time import sleep

from picamera import PiCamera

gpio.setmode(gpio.BCM)

gpio.setup(17,gpio.IN)

gpio.setup(27,gpio.OUT)

if(gpio.input(17)==0):

gpio.output(27,1)

camera = PiCamera()

camera.start\_preview()

camera.vflip = True

sleep(2)

camera.capture('foo.jpg', use\_video\_port=True)

camera.stop\_preview()

camera.close()

gpio.output(27, 0)

Algorithm

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1. Import the RPi.GPIO, PiCamera and sleep libraries.

2. Set the GPIO pins 17(input mode) and 27(output mode).

3. Check if the input is ―0‖.

a. Write ―1‖ to GPIO pin 27 as output(LED is on).

gpio.output(27,1)

b. Create PiCamera object camera.

camera = PiCamera()

c. Start preview.

camera.start\_preview()

d. Sleep for a minimum of 2 seconds

e. Capture the image.

camera.capture('image.jpg', use\_video\_port=True)

f. Stop the preview and Close Camera

camera.stop\_preview()

camera.close()

g. Write ―0‖ to GPIO pin 27 as output(LED is off).

gpio.output(27,0)