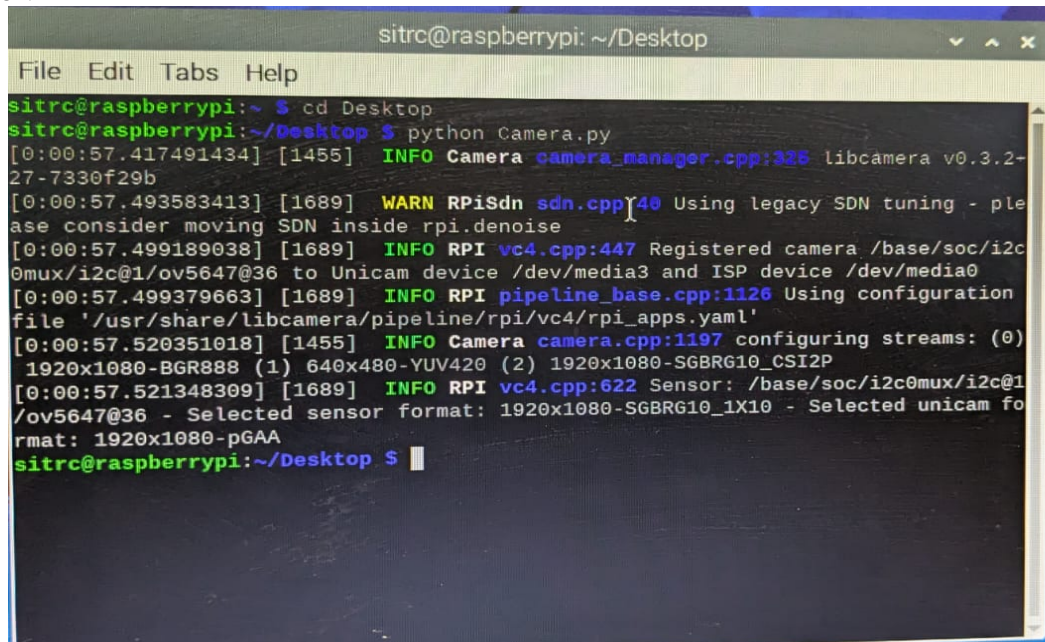


// Understanding and connectivity of Raspberry-Pi /Beagle board with camera. Write an application to capture and store the image.

```
import time
import picamera
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BOARD)
GPIO.setup(40,GPIO.OUT)
GPIO.setup(38,GPIO.OUT)
camera=picamera.PiCamera()
print("Camera is ON")
GPIO.output(40,GPIO.HIGH)
camera.capture('image.jpg')
time.sleep(1)
GPIO.output(40,GPIO.LOW)
print("Image Captured...")
camera.start_recording('video.h264')
GPIO.output(38,GPIO.HIGH)
time.sleep(3)
camera.stop_recording()
GPIO.output(38,GPIO.LOW)
print("Video Has Been Recorded...")
```

OUTPUT:



```
sitrc@raspberrypi: ~/Desktop
File Edit Tabs Help
sitrc@raspberrypi:~ $ cd Desktop
sitrc@raspberrypi:~/Desktop $ python Camera.py
[0:00:57.417491434] [1455] INFO Camera camera_manager.cpp:325 libcamera v0.3.2-27-7330f29b
[0:00:57.493583413] [1689] WARN RPISdn sdn.cpp:40 Using legacy SDN tuning - please consider moving SDN inside rpi.denoise
[0:00:57.499189038] [1689] INFO RPI vc4.cpp:447 Registered camera /base/soc/i2c0mux/i2c@1/ov5647@36 to Unicam device /dev/media3 and ISP device /dev/media0
[0:00:57.499379663] [1689] INFO RPI pipeline_base.cpp:1126 Using configuration file '/usr/share/libcamera/pipeline/rpi/vc4/rpi_apps.yaml'
[0:00:57.520351018] [1455] INFO Camera camera.cpp:1197 configuring streams: (0) 1920x1080-BGR888 (1) 640x480-YUV420 (2) 1920x1080-SGBRG10_CSI2P
[0:00:57.521348309] [1689] INFO RPI vc4.cpp:622 Sensor: /base/soc/i2c0mux/i2c@1/ov5647@36 - Selected sensor format: 1920x1080-SGBRG10_1X10 - Selected unicam format: 1920x1080-pGAA
sitrc@raspberrypi:~/Desktop $
```