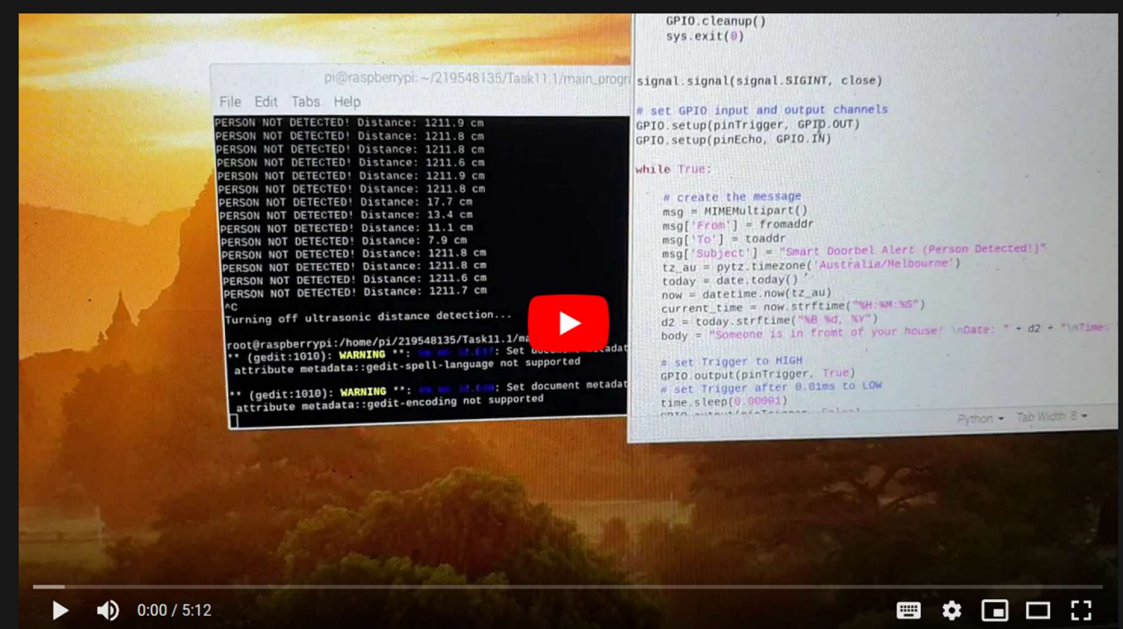


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SIT210 Task 11.1PCDHD

Youtube link: <https://youtu.be/maN1FEY4jvE>



The screenshot displays a YouTube video player with a background image of a sunset over a forest. The video content shows a terminal window on a Raspberry Pi and a Python script. The terminal output indicates that the system is detecting distances and sending alerts. The Python code is a script that sets up GPIO pins, creates an email message, and sends it when a person is detected.

```
pi@raspberrypi: ~/219548135/Task11.1/main_program
File Edit Tabs Help
PERSON NOT DETECTED! Distance: 1211.9 cm
PERSON NOT DETECTED! Distance: 1211.8 cm
PERSON NOT DETECTED! Distance: 1211.8 cm
PERSON NOT DETECTED! Distance: 1211.8 cm
PERSON NOT DETECTED! Distance: 1211.9 cm
PERSON NOT DETECTED! Distance: 1211.8 cm
PERSON NOT DETECTED! Distance: 17.7 cm
PERSON NOT DETECTED! Distance: 13.4 cm
PERSON NOT DETECTED! Distance: 11.1 cm
PERSON NOT DETECTED! Distance: 7.9 cm
PERSON NOT DETECTED! Distance: 1211.8 cm
PERSON NOT DETECTED! Distance: 1211.8 cm
PERSON NOT DETECTED! Distance: 1211.6 cm
PERSON NOT DETECTED! Distance: 1211.7 cm
AC
Turning off ultrasonic distance detection...
root@raspberrypi: /home/pi/219548135/Task11.1/main_program
** (gedit:1010): WARNING **: Set document metadata
attribute metadata::gedit-spell-language not supported
** (gedit:1010): WARNING **: Set document metadata
attribute metadata::gedit-encoding not supported

GPIO.cleanup()
sys.exit(0)

signal.signal(signal.SIGINT, close)

# set GPIO input and output channels
GPIO.setup(pinTrigger, GPIO.OUT)
GPIO.setup(pinEcho, GPIO.IN)

while True:

    # create the message
    msg = MIMEText('')
    msg['From'] = fromaddr
    msg['To'] = toaddr
    msg['Subject'] = "Smart Doorbell Alert (Person Detected!)"
    tz.au = pytz.timezone('Australia/Melbourne')
    today = date.today()
    now = datetime.now(tz.au)
    current_time = now.strftime("%H:%M:%S")
    d2 = today.strftime("%B %d, %Y")
    body = "Someone is in front of your house! \nDate: " + d2 + "\nTime: " + current_time

    # set Trigger to HIGH
    GPIO.output(pinTrigger, True)
    # Set Trigger after 0.01ms to LOW
    time.sleep(0.00001)
    GPIO.output(pinTrigger, False)
```

SIT210 Task 11.1 (PROJECT DEMO) - Rakyan Satrya Adhikara - 219548135
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