

## ICE 7

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### objective

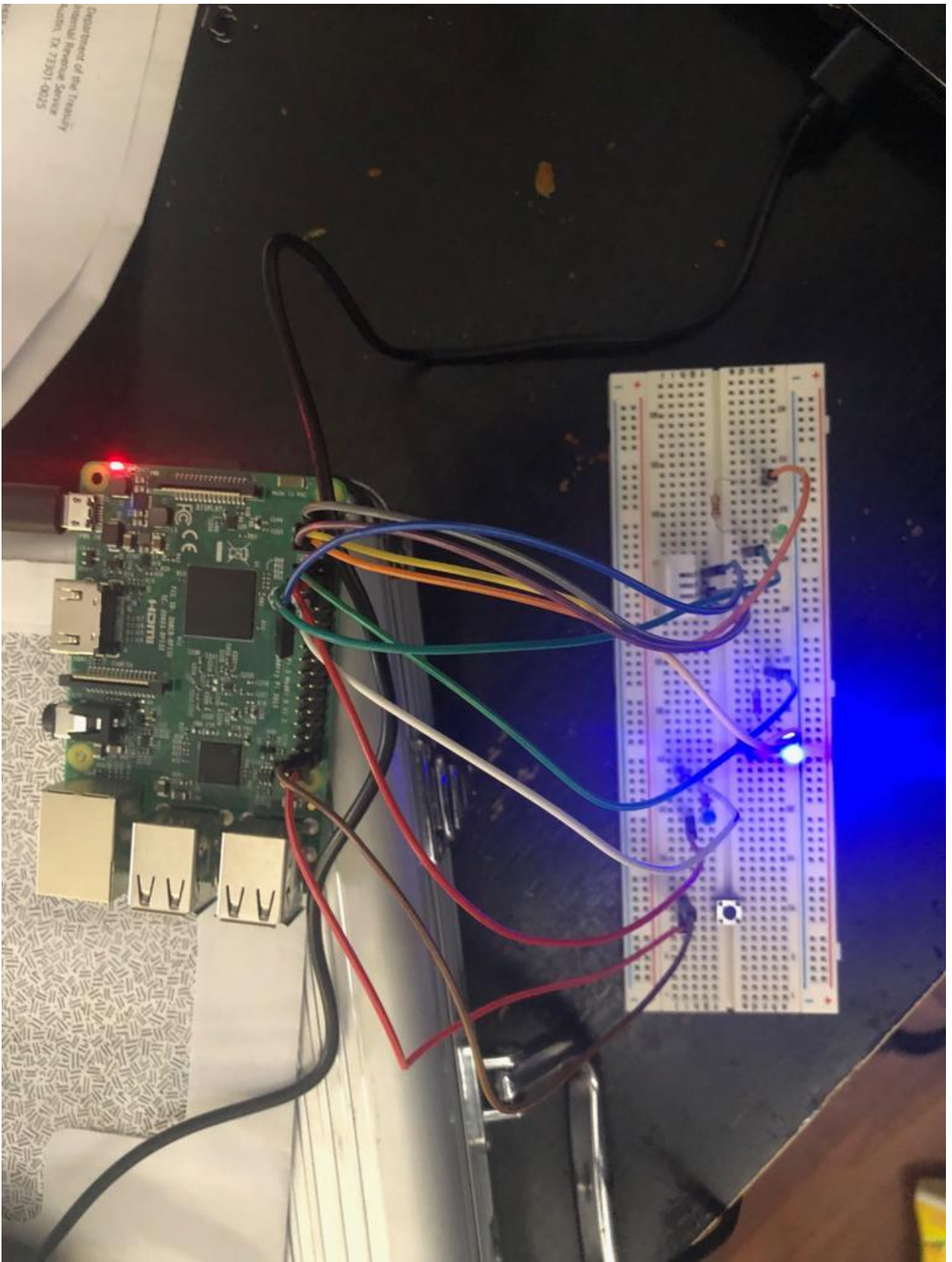
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1. using GPIO pin on Raspberry Pi to blink LED using node-red.
2. using physical button with raspberry pi and node-red.
3. calling python script from node-red on raspberry pi.
4. Send tweet from Raspberry Pi.

### workflow

### CKT diagram

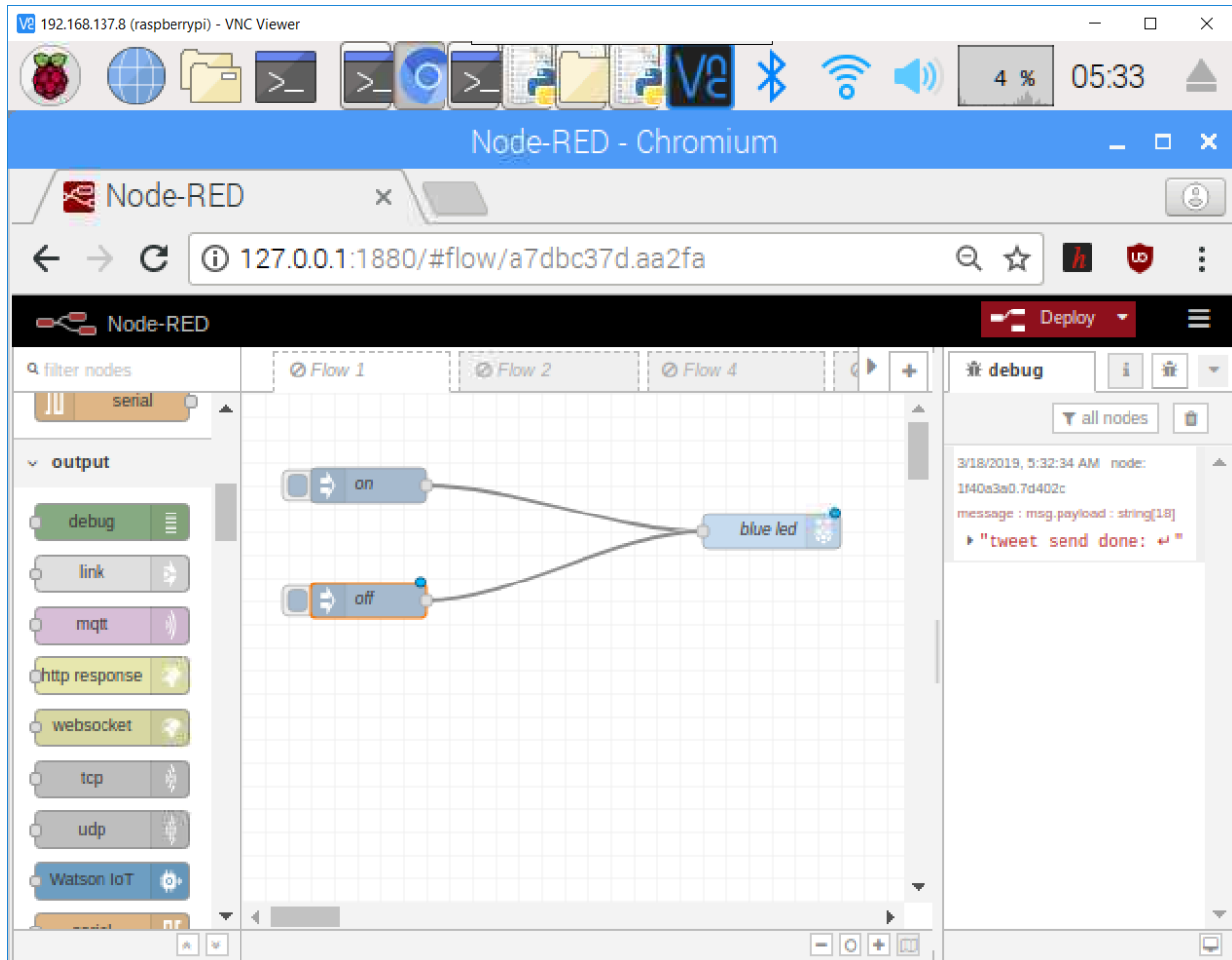
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Department of the Treasury  
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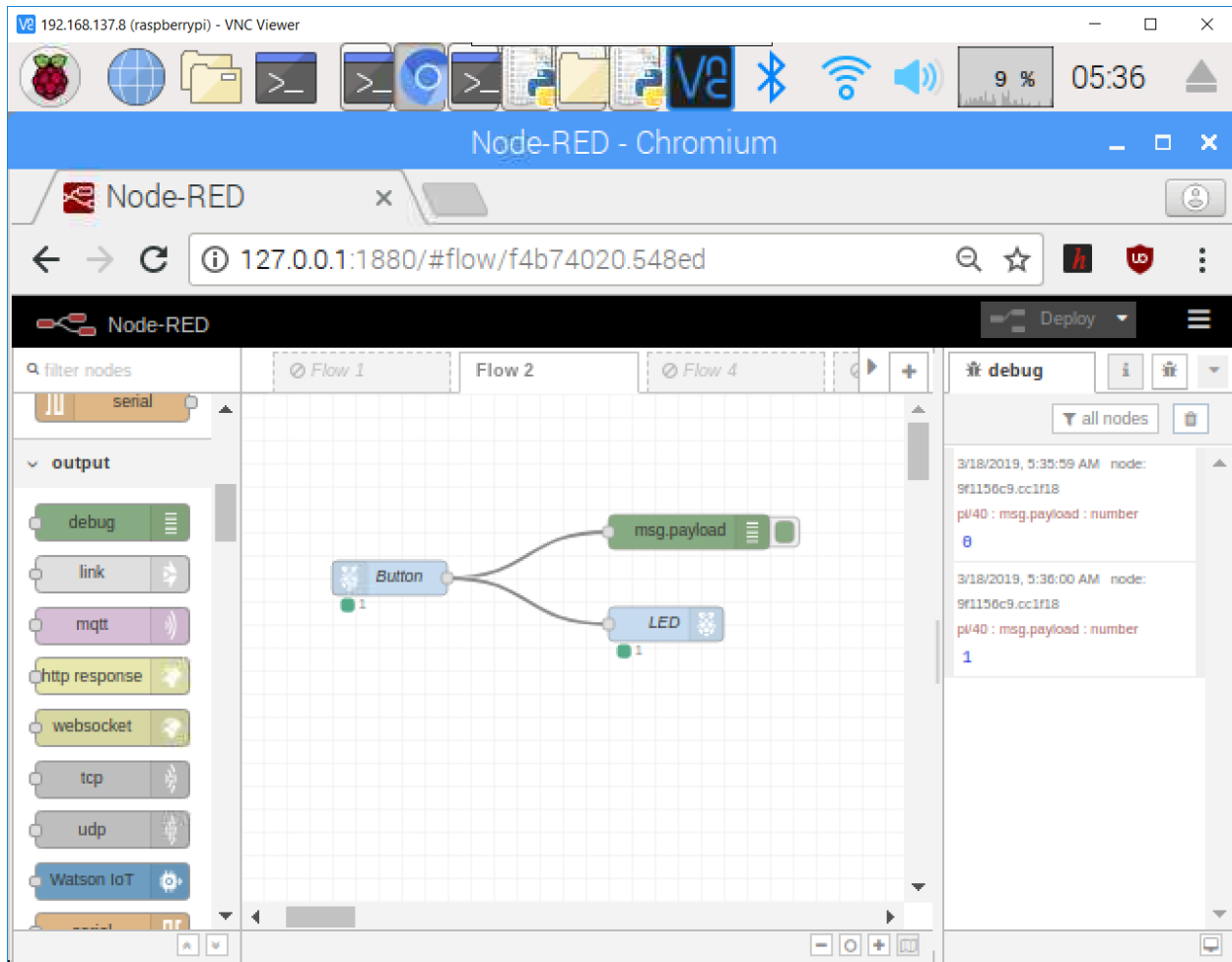
# blinking led

turn on and off LED light connected with raspberry pi using node-red



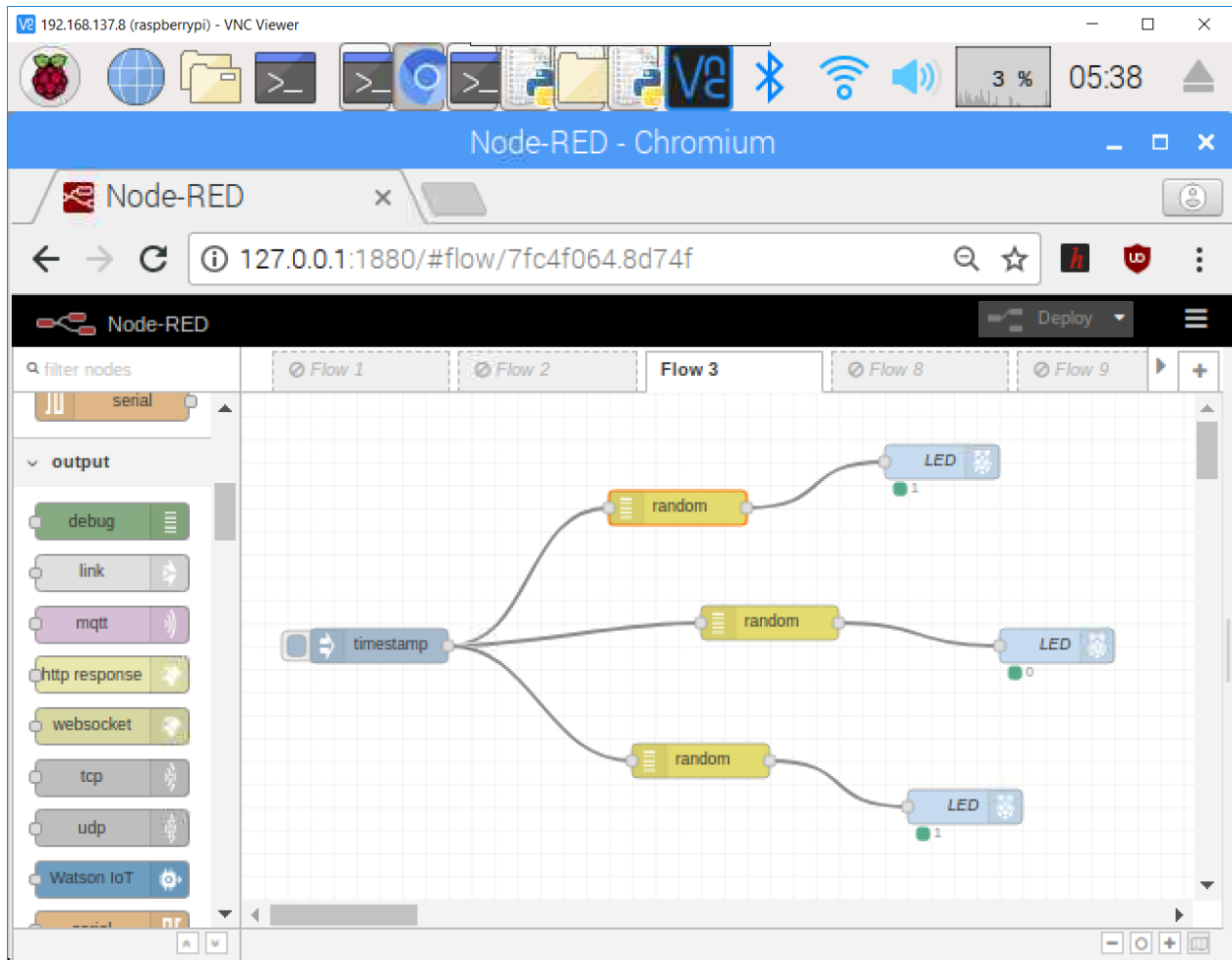
# button-LED

turn on and off LED light connected with raspberry pi using node-red and a physical button



**traffic light**

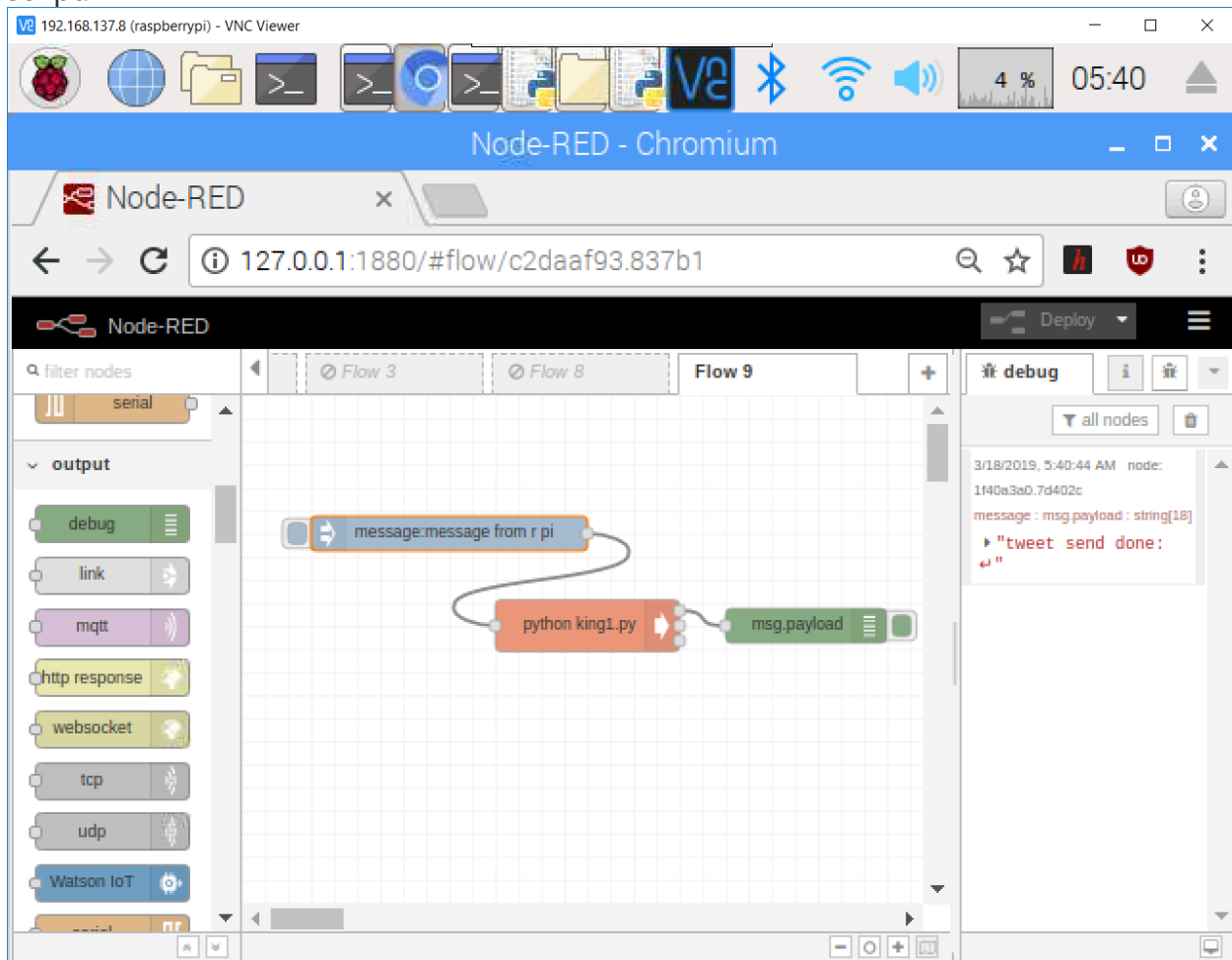
simulate traffic light using raspberry pi and node-red.



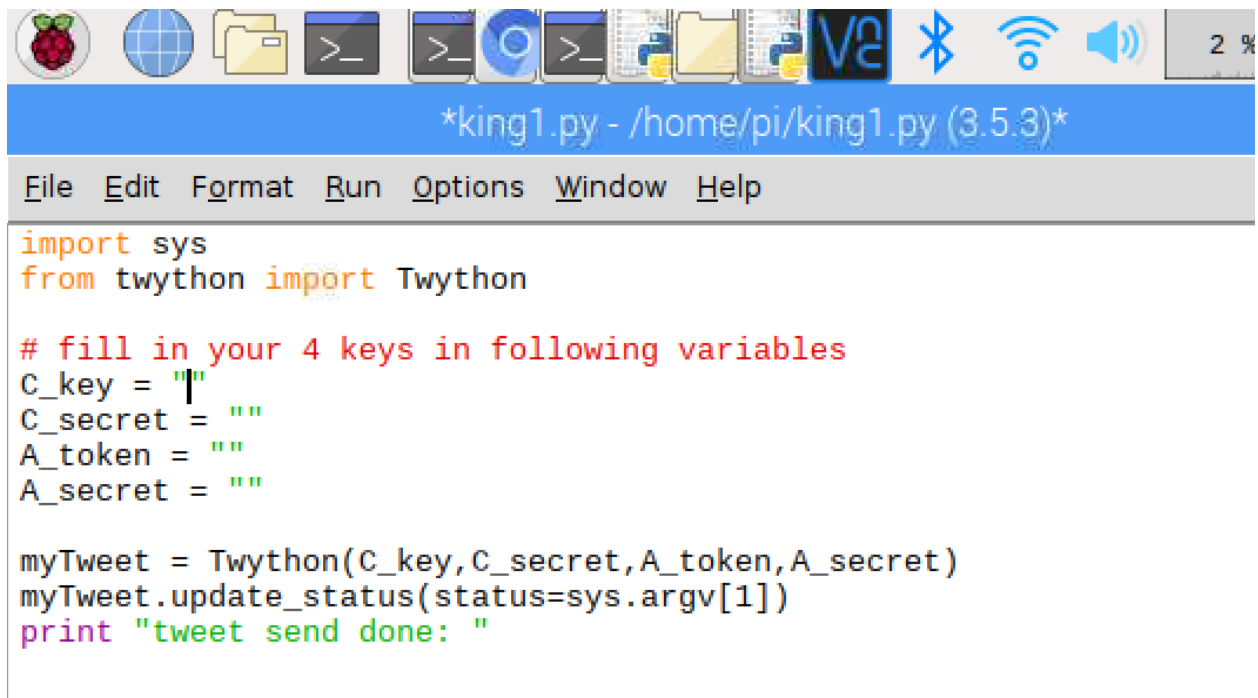
## rasberry pi - tweet

sending message from node-red to raspberry pi and the sending that message to twitter using a python

script.



**code tweeting**



The image shows a terminal window on a Raspberry Pi. The top bar displays various system icons including the Raspberry Pi logo, network status, and battery level (2%). The terminal title is `*king1.py - /home/pi/king1.py (3.5.3)*`. The menu bar includes `File`, `Edit`, `Format`, `Run`, `Options`, `Window`, and `Help`. The code being executed is a Python script that imports `sys` and `Twython`, sets up API keys, and posts a tweet with the command-line argument as its status.

```
import sys
from twython import Twython

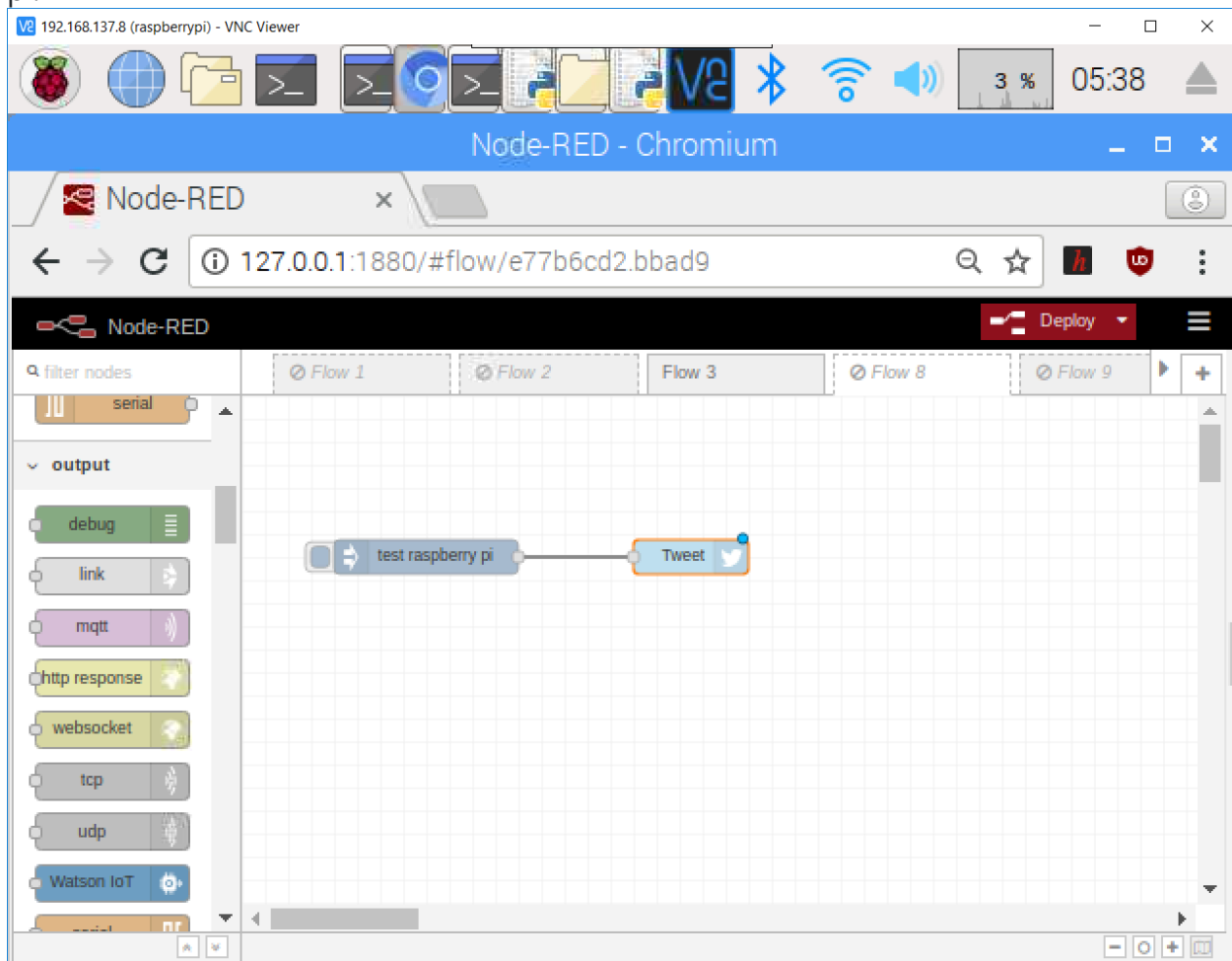
# fill in your 4 keys in following variables
C_key = ""
C_secret = ""
A_token = ""
A_secret = ""

myTweet = Twython(C_key,C_secret,A_token,A_secret)
myTweet.update_status(status=sys.argv[1])
print "tweet send done: "
```

## rasberry pi - tweet

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directly sending message to twitter from node-red running on raspberry pi.



## conclusion

with the help of this assignment we where able to learn...

1. using GOPI pin on Raspberry Pi to blink LED using node-red.
2. using physical button with raspberry pi and node-red.
3. calling python script from node-red on raspberry pi.
4. Send tweet from Raspberry Pi.