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Department of Information Technology

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IOT ASSIGNMENT – 03

#python code for blinking LED and traffic lights for Raspberry pi #python code for blinking LED

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library from time import sleep # Import the

sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO.BOARD) # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to

low

(off)

while True: # Run forever

GPIO.output(8, GPIO.HIGH) # Turn on

sleep(1) # Sleep for 1 second

GPIO.output(8, GPIO.LOW) # Turn off

sleep(1) # Sleep for 1 second

#Python code for Traffic Light

```
import RPi.GPIO as
GPIO import time
import signal import
sys
# Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
# Turn off all lights when user ends demo
def allLightsOff(signal, frame):
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, False)
GPIO.cleanup()
sys.exit(0)
signal.signal(signal.SIGINT,
allLightsOff) # Loop forever while
True: # Red GPIO.output(9, True)
time.sleep(3)
# Red and amber
GPIO.output(10,
True) time.sleep(1)
# Green
GPIO.output(9, False)
```

```
GPIO.output(10,
```

False)

GPIO.output(11,

True) time.sleep(5)

Amber

GPIO.output(11, False)

GPIO.output(10, True)

time.sleep(2)

Amber off (red comes on at top of loop)

GPIO.output(10, False)