

Assignment -3

Python Programming

Question-1:

write a python code for blinking led and traffic lights for raspberry pi

Solution:

Our script needs to do the following:

1. Initialize the GPIO ports
2. Turn the LED on and off in 1 second intervals

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
```

```
while True: GPIO.output(8,  
GPIO.HIGH) GPIO.output(8,  
GPIO.LOW) sleep(1)
```

With our program finished, save it as `blinking_led.py` and run it either inside your IDE or in the console with :

```
$ python blinking_led.py
```