

Assignment-3
Python Programming

Assignment Date	3 october 2022
Student Name	Ms.Dharani T
Student Register Number	923019106005
Maximum Marks	2 Marks

Question-1:

Build a Python Code For Blinking LED and Traffic Lights For Raspberry Pi.

Solution:

```
Import RPi.GPIO as GPIO
```

```
Import time
```

```
GPIO.setwarnings(False)
```

```
#set up variables
```

```
Green=11
```

```
Yellow=10
```

```
Red=9
```

```
#set up the numbering scheme
```

```
GPIO.setmode(GPIO.BCM)
```

#set the mode on the pins to OUT

GPIO.setup(red, GPIO.OUT)

GPIO.setup(green, GPIO.OUT)

GPIO.setup(yellow, GPIO.OUT)

#initially turn the lights off

GPIO.setup(green, False)

GPIO.setup(yellow,False)

GPIO.setup(red,False)

#trun green on for 3 seconds

GPIO.output(green,True)

Time.sleep(3)

#trun yellow on for 3 seconds

GPIO.output(green,False)

GPIO.output(yellow,False)

Time.sleep(3)

#trun red on for 3 seconds

GPIO.output(yellow,False)

GPIO.output(red,False)

Time.sleep(10)

