

Assignment-3
Python
Programming

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| Assignment Date | 3 october 2022 |
| Student Name | 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)
```

```
#turn green on for 3 seconds
```

```
GPIO.output(green, True)
Time.sleep(3)
```

```
#turn yellow on for 3 seconds
```

```
GPIO.output(green, False)
GPIO.output(yellow, False)
Time.sleep(3)
```

```
#turn red on for 3 seconds
```

```
GPIO.output(yellow, False)
GPIO.output(red, False)
Time.sleep(10)
```

