

### Assignment -3

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| Assignment Date     | 19 September 2022    |
| Student Name        | Ms. LEENA BHARATHI D |
| Student Roll Number | 130719106017         |
| Maximum Marks       | 2 Marks              |

#### Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi

##### Program: 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()#sleep
    for 1 second
```

##### Traffic lights for Raspberry pi:

```
GPIO.setup(ledGreen, GPIO.OUT)
GPIO.setup(ledYellow, GPIO.OUT)
GPIO.setup(ledRed, GPIO.OUT) while
True:
    input_state = GPIO.input(button) if
    input_state == False: print('Button Pressed')
    lightTraffic(ledGreen, ledYellow, ledRed, 1)
else:
    GPIO.output(ledGreen, 0)
    GPIO.output(ledYellow, 0)
    GPIO.output(ledRed, 0) except
KeyboardInterrupt:
    print "You've exited the program" finally:
    GPIO.cleanup()
```