

### Assignment -3

Assignment Date	19 September 2022
Student Name	Ms. VARSHA A
Student Roll Number	130719106045
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()
```