### **ASSIGNMENT - 3**

## **PYTHON PROGRAMMING**

Assignment Date	04 October 2022
Student Name	KAVITHA. D
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Maximum Marks	2 Marks

# **Question-1:**

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

```
Solution:
import RPi.GPIO as GPIO
import time
try:
def lightTraffic(led1, led2, led3, delay ):
  GPIO.output(led1, 1)
 time.sleep(delay)
  GPIO.output(led1, 0)
  GPIO.output(led2, 1)
 time.sleep(delay)
  GPIO.output(led2, 0)
  GPIO.output(led3, 1)
  time.sleep(delay)
  GPIO.output(led3, 0)
 GPIO.setmode(GPIO.BCM)
button = 19
GPIO.setup(button, GPIO.IN, pull_up_down=GPIO.PUD_UP)
 ledGreen = 16
ledYellow = 12
```

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```
ledRed = 23
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()
```