ASSIGNMENT – 3

PYTHON PROGRAMMING

Assignment Date	04 October 2022
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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(RED, GREEN, BLUE, delay ):
  GPIO.output(RED, 1)
 time.sleep(delay)
  GPIO.output(RED, 0)
  GPIO.output(GREEN, 1)
  time.sleep(delay)
  GPIO.output(GREEN, 0)
  GPIO.output(BLUE, 1)
  time.sleep(delay)
  GPIO.output(BLUE, 0)
 GPIO.setmode(GPIO.BCM)
 BUTTON = 19
 GPIO.setup(BUTTON, GPIO.IN, pull_up_down=GPIO.PUD_UP)
 BLUELED = 12
 GREENLED = 27
 REDLED = 14
 GPIO.setup(BLUELED, GPIO.OUT)
 GPIO.setup(GREENLED, GPIO.OUT)
GPIO.setup(REDLED, GPIO.OUT)
 while True:
  input_state = GPIO.input(BUTTON)
  if input_state == False:
   print('WHEN BUTTON IS PRESSED')
  lightTraffic(BLUELED, GREENLED, REDLED, 1)
  else:
```

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