**ASSIGNMENT 3**

**SMART RAILWAY SOLUTIONS**

|  |  |
| --- | --- |
| Assignment Date | **06.10.2022** |
| Student Name | **YUVASREE.R** |
| Student Roll No | **410819104035** |
| Maximum Marks | **2 Marks** |

|  |
| --- |
| **Question:**  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(led3,0)  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  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 have executed the program”  finally:  GPIO.cleanup() |