**NAME :DIVYAPRAKASH S**

**QUESTION:**

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi

|  |
| --- |
| #!/usr/bin/env python |
|  | import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now |
|  | import time |
|  |  |
|  | ledPin = 22 # pin22 |
|  |  |
|  | def setup(): |
|  | GPIO.setmode(GPIO.BOARD) # GPIO Numbering of Pins |
|  | GPIO.setup(ledPin, GPIO.OUT) # Set ledPin as output |
|  | GPIO.output(ledPin, GPIO.LOW) # Set ledPin to LOW to turn Off the LED |
|  |  |
|  | def loop(): |
|  | while True: |
|  | print 'LED on' |
|  | GPIO.output(ledPin, GPIO.HIGH) # LED On |
|  | time.sleep(1.0) # wait 1 sec |
|  | print 'LED off' |
|  | GPIO.output(ledPin, GPIO.LOW) # LED Off |
|  | time.sleep(1.0) # wait 1 sec |
|  | def endprogram(): |
|  |  |
|  | GPIO.output(ledPin, GPIO.LOW) # LED Off |
|  | GPIO.cleanup() # Release resources |
|  |  |
|  | if \_\_name\_\_ == '\_\_main\_\_': # Program starts from here |
|  | setup() |
|  | try: |
|  | loop() |
|  | except KeyboardInterrupt: # When 'Ctrl+C' is pressed, the destroy() will be executed. |
|  | endprogram() |