**Assignment-3**

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| AssignmentDate | 07October2022 |
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| MaximumMarks | 2Marks |

**Question:**

WritepythoncodeforblinkingLEDandTrafficlightsforRaspberrypi.(onlypythoncode).

**PythoncodeforblinkingLED:**

importRPi.GPIOasGP

fromtimeimportsleep

GP.setwarnings(False)

GP.setmode(GP.BOARD)

GP.setup(8,GP.OUT,initial=GP.LOW)

whileTrue:#infiniteloop

GP.output(8,GPIO.HIGH)#Turnon

print("TheLEDisON")

sleep(2)#Sleepfor2second

GP.output(8,GPIO.LOW)#Turnoff

print("TheLEDisOFF")

sleep(2)#Sleepfor2second

**PythoncodeforTrafficlights:**

fromgpiozeroimportLED

fromtimeimportsleep

red=LED(17)

aster=(22)

green=(27)

#pinnumbersconnectedtoLed's

whileTrue:

red.on()#REDLIGHT

print("RedlightisON")

foriinrange(100,0,-1):

print("Remainingtime:",i)

sleep(1)

red.off()

aster.on()#ASTERLIGHT

print("YellowlightisON")

foriinrange(5,0,-1):

print("Remainingtime:",i)

sleep(1)

aster.off()

green.on#GREENLIGHT

print("GreenlightisON")

foriinrange(30,0,-1):

print("Remainingtime:",i)

sleep(1)

green.off()