PYTHON CODE FOR:

1. Blinking Of LED:

Import RPi.GPIO as GPIO

From time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

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

While True:

GPIO.output(8, GPIO.HIGH)

Sleep(1)

GPIO.output(8, GPIO.LOW)

Sleep(2)

GPIO.output(8, GPIO.HIGH)

Sleep(1)

GPIO.output(8, GPIO.LOW)

Sleep(1)

2) Traffic Lights:

Import RPi.GPIO as GPIO

Import time

Import signal

Import sys

GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT)

GPIO.setup(11, GPIO.OUT)

Def LightsOff(signal, frame):

GPIO.output(9, False)

GPIO.output(10, False)

GPIO.output(11, False)

GPIO.cleanup()

Sys.exit(0)

Signal.signal(signal.SIGINT, LightsOff)

While True:

GPIO.output(9, True)

Time.sleep(3)

GPIO.output(10, True)

Time.sleep(1)

GPIO.output(9, False)

GPIO.output(10, False)

GPIO.output(11, True)

Time.sleep(5)

GPIO.output(11, False)

GPIO.output(10, True)

Time.sleep(2)

GPIO.output(10, False)