ASSIGNMENT-3:

CODE;

```
import RPi.GPIO as
GPIO import time
import
signal
import sys
# Setup
GPIO.setmode(GPIO.B
CM) GPIO.setup(9,
GPIO.OUT)
GPIO.setup(10,
GPIO.OUT)
GPIO.setup(11,
GPIO.OUT)
# Turn off all lights when its
end def allLightsOff(signal,
frame):
        GPIO.output(9,
        False)
        GPIO.output(10,
        False)
        GPIO.output(11,
        False)
        GPIO.cleanup()
        sys.exit(0)
signal.signal(signal.SIGINT,
allLightsOff) # Loop for led light
while True:
        # RED LIGHT
        GPIO.output(9,
        True)
        time.sleep(3)
```

 # RED AND YELLOW

GPIO.output(10,

True) time.sleep(1)

 # GREEN LIGHT

GPIO.output(9,

False)

GPIO.output(10,

False)

GPIO.output(11,

True)

```
        time.sleep(5)

        # YELLOW LIGHT
        GPIO.output(11,
        False)
        GPIO.output(10,
        True) time.sleep(2)

        #YELLOW OFF (red start from first
        loop) GPIO.output(10, False)

import RPi.GPIO as
GPIO import time
import
signal
import sys
# Setup
GPIO.setmode(GPIO.B
CM) GPIO.setup(9,
GPIO.OUT)
GPIO.setup(10,
GPIO.OUT)
GPIO.setup(11,
GPIO.OUT)
# Turn off all lights when its
end def allLightsOff(signal,
frame):
            GPIO.output(9,
            False)
            GPIO.output(10,
            False)
            GPIO.output(11,
            False)
            GPIO.cleanup()
            sys.exit(0)
```

```
signal.signal(signal.SIGINT, allLightsOff)
```

```
# Loop for led
light while True:
        # RED LIGHT
        GPIO.output(9,
        True)
        time.sleep(3)

        # RED AND YELLOW
        GPIO.output(10,
        True) time.sleep(1)

        # GREEN LIGHT
        GPIO.output(9,
        False)
        GPIO.output(10,
        False)
        GPIO.output(11,
        True) time.sleep(5)

        # YELLOW LIGHT
        GPIO.output(11,
        False)
        GPIO.output(10,
        True) time.sleep(2)

        #YELLOW OFF (red start from first
        loop) GPIO.output(10, False)
```