## **Assignment-3:**

MK.Mohamed fardeen

421319106023(batch 9)

Team Id-PNT2022TMID38943

Smart waste management for metropolitan cities .

<u>Question</u> - Write python code for blinking LED and traffic lights for raspberry pi.

## **Program for blinking LED:**

```
import time
```

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT)

while True:

GPIO.output(11,True)

time.sleep(1)

GPIO.output(11,False)

time.sleep(1)

except KeyboardInterrupt:

GPIO.cleanup()

## **Program for Traffic Light:**

import RPi.GPIO as GPIO

```
import time
```

```
ledGreen = 16
ledYellow = 12
ledRed = 23
button = 19
GPIO.setmode(GPIO.BOARD)
GPIO.setup(16, GPIO.OUT)
GPIO.setup(12, GPIO.OUT)
GPIO.setup(23, GPIO.OUT)
GPIO.setup(19, GPIO.IN, pull_up_down=GPIO.UP)
while True:
 button_state = GPIO.input(19)
if button_state == True:
  GPIO.output(16,True)
  time.sleep(1)
  GPIO.output(16,False)
  GPIO.output(12,True)
  time.sleep(1)
```

```
GPIO.output(12,False)
  GPIO.output(23,True)
  time.sleep(1)
  GPIO.output(23,False)
  time.sleep(1)
 else:
  if button_state == False:
   GPIO.output(16,False)
   GPIO.output(12,False)
   GPIO.output(23,False)
   time.sleep(1)
except KeyboardInterrupt:
GPIO.cleanup()
```