**Assignment-3**

Python Programming

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| Assignment Date | 03-October 2022 |
| Student Name | KABILAN S |
| Student Roll Number | 811019106017 |
| Maximum Marks | 2 Marks |

**Question-1:**

Write a phyton code for blinking LED .

**Solution:**

import RPi.GPIO as GP

from time import sleep

GP.setwarnings(False)

GP.setmode(GP.BOARD)

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

while True: #infinite loop

GP.output(8, GPIO.HIGH) # Turn on

print("The LED is ON")

sleep(2) # Sleep for 2 second

GP.output(8, GPIO.LOW) # Turn off

print("The LED is OFF")

sleep(2) # Sleep for 2 second

**Question-2:**

**Write a phytoncode for traffic lights for for raspberry pi.**

**Solution:**

from gpiozero import LED

from time import sleep

red= LED(17) #pin numbers connected to Led's

aster=(22)

green=(27)

while True:

red.on() #RED light

print("Red light is ON")

for i in range(100,0,-1):

print("Remaining time: ",i)

sleep(1)

red.off()

aster.on() # ASTER light

print("Yellow light is ON")

for i in range(5,0,-1):

print("Remaining time: ",i)

sleep(1)

aster.off()

green.on #GREEN light

print("Green light is ON")

for i in range(30,0,-1):

print("Remaining time: ",i)

sleep(1)

green.off()