Assignment -3
Python Programming

Assignment Date	03 October 2022
Student Name	Ms. Swetha S
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Maximum Marks	2 Marks

Question-1:

Write Python code for Blinking LED and Traffic Lights for Raspberry Pi. Only the Python code is enough and need not to execute it in the board.

Solution:

CODE FOR BLINKING OF LED :

```
from machine import pin
from time import sleep
#importing inbuilt funxtions
value=int(input("enter second"))
#how many secs the led need to turn on and turn off
#eg sec=2,led will blink and turn off for 2sec
Led=pin(25,pin.OUT)

while True:
    Led.high()
    sleep(value)
    Led.low()
    sleep(value)
```

traffic light.py

```
1  from machine import pin
2  from time import sleep
3  #importing inbuilt funxtions
4  value=int(input("enter second"))
5  #how many secs the led need to turn on and turn off
6  #eg sec=2,led will blink and turn off for 2sec
7  Led=pin(25,pin.OUT)
8
9  while True:
10     Led.high()
11     sleep(value)
12     Led.low()
13     sleep(value)
14
```

TRAFFIC LIGHT CODE:

```
from gpiozero import LED
from time import sleep
#importing inbuilt functions
#5,6,13 indicates gpio pins
green= LED(5)
red= LED(6)
blue= LED(13)
while True:
#initially all the lights are off
   green.off()
   red.off()
   blue.off()
   sleep(1)
#green led will on for 1s
   green.on()
   sleep(1)
#green led will turn off after 1s and red led will turn on
   green.off()
   red.on()
   sleep (1)
   red.off()
   blue.on()
   sleep(1)
```