## **Assignment -3**Python Programming

Assignment Date	01 October 2022
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Maximum Marks	2 Marks

## Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi.Only python code is enough, no need to execute in raspberry pi.Note: you are allowed to use web search and complete the assignment.

## **Solution:**

from gpiozero import Button

button.wait\_for\_release()

print("Released")

```
button = Button(21)

while True:
    print(button.is_pressed)

while True:
    if button.is_pressed:
        print("Hello")

else:
        print("Goodbye")

while True:
    button.wait_for_press()
    print("Pressed")
```

```
from gpiozero import Button, LED
led = LED(25)
while True:
  button.wait_for_press()
  led.on()
  button.wait_for_release()
  led.off()
while True:
  led.on()
  button.wait_for_press()
  led.off()
  button.wait_for_release()
while True:
  led.blink()
  button.wait_for_press()
  led.off()
  button.wait_for_release()
from gpiozero import Button,
TrafficLights lights = TrafficLights(25, 8,
7) while True:
  button.wait_for_press()
  lights.on()
  button.wait_for_release()
  lights.off()
while True:
  lights.blink()
  button.wait_for_press()
  lights.off()
```

```
button.wait_for_release()
from gpiozero import Button, TrafficLights, Buzzer
buzzer = Buzzer(15) while True:
  lights.on()
  buzzer.off()
  button.wait_for_press()
  lights.off()
  buzzer.on()
  button.wait_for_release()
while True:
  lights.blink()
  buzzer.beep()
  button.wait_for_press()
  lights.off()
  buzzer.off()
  button.wait_for_release()
from time import sleep
while True:
  lights.green.on()
  sleep(1)
  lights.amber.on()
  sleep(1)
  lights.red.on()
  sleep(1)
  lights.off()
while True:
  button.wait_for_press()
  lights.green.on()
```

```
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
```