## **Assignment -3**

# Python Programming for Raspberry pi

Assignment Date	29 September 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:**

### PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI

```
from gpiozero import Button, LED from gpiozero import TrafficLights from gpiozero import Buzzer from time import sleep
```

```
button = Button(21)
led = LED(25)
lights = TrafficLights(25, 8, 7)
buzzer = Buzzer(15)
while True:
  button.wait_for_press()
  print("Pressed")
  button.wait_for_release()
  print("Released")
while True:
  led.blink()
  button.wait_for_press()
  led.off()
  button.wait_for_release()
while True:
  lights.blink(2, 2)
  buzzer.beep()
```

button.wait\_for\_press()

button.wait\_for\_release()

lights.off()
buzzer.off()

```
while True:
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
```