

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()
    lights.off() buzzer.off()
```

```
button.wait_for_release()
```

```
while True:
```

```
    lights.green.on()
```

```
    sleep(1)
```

```
    lights.amber.on()
```

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

```
    sleep(1)
```

```
        lights.off()
```