

Personal Assistance for Seniors Who Are Self-Reliant

Assignment – III

Topic : Python code for blinking LED and Traffic lights for Raspberry pi

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Code:

```
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11, GPIO.OUT)
while True:
    GPIO.output(11, True)
    time.sleep(1)
    GPIO.output(11, False)
    time.sleep(1)
from gpiozero import Button, TrafficLights, Buzzer
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
    button.wait_for_press()
    light.green.on()
    sleep(1)
```

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

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

```
sleep(1)
```

```
lights. off()
```

```
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()
```