SMART WASTE MANAGEMENT SYSTEM

ASSIGNMENT-3

Write a Python Code for blinking LED and Traffic Lights for Raspberry pi

COMPONENTS

Component	GPIO pin
Button	21
Red LED	25
Amber LED	8
Green LED	7
Buzzer	15

CODE

```
lights.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
From gpiozero import Button
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”)
Button.wait_for_release()
Print(“Released”)
From gpiozero import button,
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,
Lights = TrafficLights(25,8,7)
While True:
Button.wait_for_press()
lights.on()
Button.wait_for_release()
lights.off()
```

```
While True:
Button.wait_for_press()
Lights.blink()
Button.wait_for_release()
lights.off()
from gpiozero import button,
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()
```