ASSIGNMENT -3

DATE	7 OCTOBER 2022
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STUDENT ROLL NO	19BEC002
MAXIMUM MARKS	2 MARKS

Question-1:

Write Python Code for Blinking LED and Traffic Lights for Raspberry pi?
from gpiozero import Button

Solution:

```
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 = 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)
```

```python
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()
```