

### Assignment – 3

#### Raspberry pi programming

Date	04 October 2022
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Maximum Marks	2 Marks

#### Question-1

Write python code for blinking LED and traffic lights for Raspberry pi.

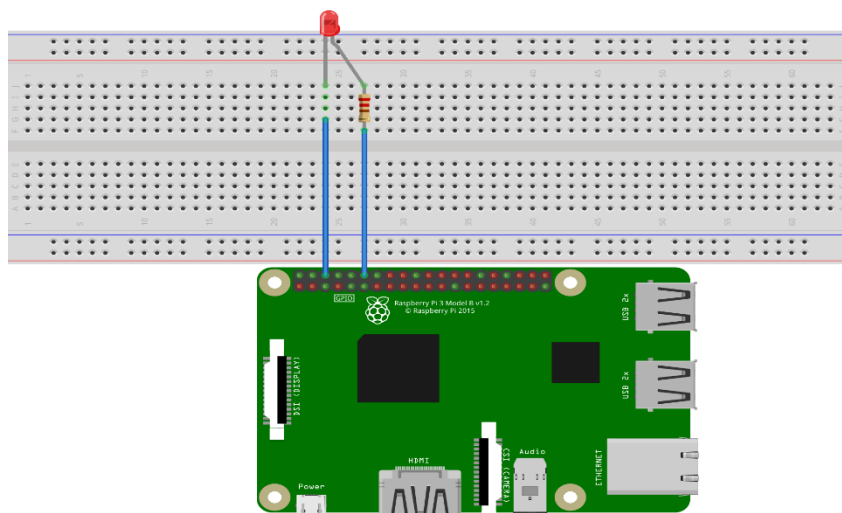
#### Solution

##### 1. Python code LED blinking for raspberry pi:

```
from gpiozero import LED          # importing GPIO pins as LED
from time import sleep            # importing time function as sleep
red = LED(18)                     # red LED is connected to GPIO 18

while True:                       # infinite loop
    red.on()                       # red LED is on for 1 second
    sleep(1)
    red.off()                     # red led is off for 1 second
    sleep(1)
```

##### Circuit : LED blinking using raspberry pi



## 2. Python code traffic light for raspberry pi:

```
from gpiozero import LED
from time import sleep

red = LED(23)
yellow = LED(07)
green = LED(19)

while True:

    red.on()
    sleep(5)
    red.off()

    yellow.on()
    sleep(2)
    yellow.off()

    green.on()
    sleep(5)
    green.off()
```

# importing GPIO pins as LED

# importing time function as sleep

# red LED connected to GPIO 23

# yellow LED connected to GPIO 07

# green LED connected to GPIO 19

# infinite loop

# red LED is on for 5 seconds to make stop

# yellow LED is on for 2 seconds to make ready

# green LED is on for 5 seconds to make go

## Circuit : Traffic light using raspberry pi

