Assignment – II

Python code to blink a LED light by Raspberry pi

Components Required :

- Raspberry Pi 3 Model B (any Raspberry Pi would do fine)
- 5mm LED x 1
- 1KΩ Resistor (1/4 Watt) x 1
- Connecting wires
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Process :

- Install VIM editor or if you have already installed no need to install again
- In VIM editor type the following code in SSH terminal
- Then open a new blank python file and save the file by the command "*sudo vim blinkLed.py*"
- Now check whether the program is running or not, enter the "*sudo vim blinkLed.py*" in the SSH terminal .
- The output will be executed

Python code to blink a LED :

```python
import RPi.GPIO as GPIO
import time


ledPin = 22


def setup():
        GPIO.setmode(GPIO.BOARD)
        GPIO.setup(ledPin, GPIO.OUT)
        GPIO.output(ledPin, GPIO.LOW)


def loop():
        while True:
                print 'LED on'
                GPIO.output(ledPin, GPIO.HIGH)
                time.sleep(1.0)
                print 'LED off'
                GPIO.output(ledPin, GPIO.LOW)
                time.sleep(1.0)
def endprogram():
```

```python
        GPIO.output(ledPin, GPIO.LOW)
        GPIO.cleanup()

if __name__ == '__main__':
        setup()
        try:
                loop()
        except KeyboardInterrupt:
                endprogram()
```

Pin Configuration :