**ASSIGNMENT 3**

MAHENDRA ENGINEERING COLLEGE FOR WOMEN

NAME: Chandralekha.U

CLASS: 4 YEAR ECE

SUBJECT: IBM

REGISTER No:611419106017

Question-1:

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

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| **Solution:** |
| **import RPi.GPIO as GPIO import time**  **import signal import sys**  **# Setup GPIO.setmode(GPIO.BCM) GPIO.setup(9, GPIO.OUT) GPIO.setup(10, GPIO.OUT) GPIO.setup(11, GPIO.OUT)**  **# Turn off all lights when user ends demo def allLightsOff(signal, frame):**  **GPIO.output(9, False) GPIO.output(10, False) GPIO.output(11, False) GPIO.cleanup() sys.exit(0)**  **signal.signal(signal.SIGINT, allLightsOff) # Loop forever**  **while True:**  **# Red GPIO.output(9, True) time.sleep(3)**  **# Red and amber GPIO.output(10, True) time.sleep(1)**  **# Green** |

GPIO.output(9, False) GPIO.output(10, False) GPIO.output(11, True) time.sleep(5)

# Amber GPIO.output(11, False) GPIO.output(10, True) time.sleep(2)

# Amber off (red comes on at top of loop) GPIO.output(10, False)