Edge Computing Lab

Class: TY-AIEC

School of Computing, MIT Art Design Technology University

Academic Year: 2024-25

Experiment No. 1

Title: “Hello World” to Raspberry Pi

Python Code :-

```
import RPi.GPIO as GPIO

import time

# Use BCM GPIO references instead of physical pin numbers GPTO.set.mode(GPTO.BCM)

# Define GPIO signal to use (Physical pin 7 corresponds to BCM GPIO 4) GPIO LED = 4

# Set up the GPIO channel as output GPIO.setup (GPIO_LED, GPIO.OUT)

try:

#Loop to blink the LED on and off

while True:
```

```
#Turn LED on

GPIO.output (GPIO_LED, True)

print("LED ON")

time.sleep(1) #Sleep for 1 second

# Turn LED off

GP10.output (GPIO_LED, False)

print("LED OFF")

time.sleep(1) # Sleep for 1 second

except KeyboardInterrupt:

#Clean up on Ctrl+C exit

GPIO.cleanup()
```