



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IV YEAR / VII SEMESTER (ODD)

BATCH: 2019-2023

ACADEMIC YEAR 2022-2023

ASSIGNMENT - III

TEAM ID : PNT2022TMID48721

TITLE OF THE PROJECT : SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

DOMIN : INTERNET OF THINGS (IOT)

TEAM LEAD : AYYAPPAN S

TEAM MEMBER : VIGNESH K

TEAM MEMBER : PARTHIBAN M

TEAM MEMBER : JABAR SATHIK S

INDUSTRY MENTOR : MENTOR 11

FACULTY MENTOR(S) NAME : M GEETHAPRIYA

The screenshot shows a web browser window with the URL careereducation.smartinternz.com/Student/guided_project_workspace/43614. The page is titled "IBM" and has a sidebar menu with options: Profile, Dashboard, Projects (selected), Change Password, Support, Orientation Sessions, and Training Calendar. The main content area is divided into three tabs: "Guided Project" (selected), "Project Workspace", and "Chat with Mentor". Under "Guided Project", the "Project Title" is "Signs with Smart Connectivity for Better Road Safety", the "Team" consists of members A, V, P, and JS, the "Industry Mentor(s) Name" is "Mentor 11", and the "Faculty Mentor(s) Name" is "M GEETHAPRIYA". There are two progress indicators: "Overall Project Progress" at 50% and "Assigned Tasks Progress" at 50%. Below this is a "GENERAL INSTRUCTION" section with a "SHOW" button. At the bottom, there are buttons for "Git Repo", "Project Doc", "Demo Link", "View Mentor Comments", "View Industry Mentor Comments", and "Assign Task". A note states: "Note: Use password SsPuOgK to access project Doc". The bottom of the page shows a "PROJECT DETAILS" section with a green button "Signs With Smart Connectivity For Better Road Safety" and a pink button "INTERMEDIATE". The bottom status bar shows the system clock as 02:40 PM on 26-10-2022, with weather information: 31°C Cloudy.

ASSIGNMENT -III

BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRYPI

CODE :

```
import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT) while True: GPIO.output(11,True)

time.sleep(1)

GPIO.output(11,False)

time.sleep(1)

from gpiozero import Button, TrafficLights, Buzzer buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7) while True: button.wait_for_press()

light.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off() 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()
```