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| **Project Name** | Smart Waste Management System For Metropolitan Cities |
| **Team ID** | PNT2022TMID20896 |

**Assignment:**

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment.

**Code:**

#traffic light for raspberry pi sim lulating in pycham with GUT import turtle

import time

gs= turtle.getscreen()

gs.title("Stoplight")

gs.bgcolor("black")

#gui interfrace

gup= turtle.Turtle()

gup. color("Yellow")

gup. width(4)

gup. hideturtle()

gup. penup()

gup. goto(-30, 60)

gup. pendown()

gup.fd(60)

gup. rt(90)

gup.fd(120)

gup. rt(90)

gup.fd(60)

gup. rt(90)

gup.fd(120)

#red light

rl=turtIe.Turtle()

rl.shape("Circle")

rl.color("Grey")

rl.penup()

rl.goto(0, 40)

#YeIIow light

yl=turtIe.Turtle()

yl.shape("Circle")

yl.color("Grey")

yl.penup()

yl.goto(0,0)

#Green light

gl=turtIe.Turtle()

gl. shape("Circle")

gl. color("G rey")

gl. penup()

gl. goto(0,-40)

while True:

yl.color("Grey")

rl.color("Red")

print("Red light is on")

print("Causes Vehicles to stop")

print("Blink!")

time.sleep(2)

print("BIink!")

rl.color("Grey")

gl.color("Green")

print("Green light is on")

print("Vechiles can now go")

print("Blink!")

time.sleep(3)

print("Blink!")

gl.color("Grey")

yl.color("Yellow")

print("Yellow light is on")

print("Vehicles are now ready to go")

print("BIink!")

time.sleep(1)

print("BIink!")

gs.mainloop()