**ASSIGNMENT 3**

**PYTHON PROGRAMMING**

|  |  |
| --- | --- |
| Assignment Date | 13 October 2022 |
| Student Name | V.Reshma |
| Student Roll Number | 963519104041 |
| Maximum Marks | 2 Marks |

**Question:**

1. *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 simulating in python with GUI*

**Code:**

|  |
| --- |
|  |
| import turtle  import time  wn= turtle.getscreen()  wn.title("Stoplight By PNT2022TMID52274")  wn.bgcolor("black")  #gui interfrace  pen= turtle.Turtle()  pen.color("Yellow")  pen.width(4)  pen.hideturtle()  pen.penup()  pen.goto(-30, 60)  pen.pendown()  pen.fd(60)  pen.rt(90)  pen.fd(120)  pen.rt(90)  pen.fd(60)  pen.rt(90)  pen.fd(120)  #red light  red\_light =turtle.Turtle()  red\_light.shape("circle")  red\_light.color("grey")  red\_light.penup()  red\_light.goto(0, 40)  #Yellow light  yellow\_light =turtle.Turtle()  yellow\_light.shape("circle")  yellow\_light.color("grey")  yellow\_light.penup()  yellow\_light.goto(0, 0)  #Green light  green\_light =turtle.Turtle()  green\_light.shape("circle")  green\_light.color("grey")  green\_light.penup()  green\_light.goto(0, -40)  while True:  yellow\_light.color("grey")  red\_light.color("red")  print("Red light Blinked - Now vehicle Stop behind zebra cross..")  print("Blink!!")  time.sleep(2)  print("Blink!!")  red\_light.color("grey")  green\_light.color("green")  print("Green light on- Now vehicle can go..")  print("Blink!!")  time.sleep(3)  print("Blink!!")  green\_light.color("grey")  yellow\_light.color("yellow")  print("Yellow light Blinked- Now vehicle Ready to go..")  print("Blink!!")  time.sleep(1)  print("Blink!!")  wn.mainloop() |

**OUTPUT:**

