## Assignment -3

Assignment Date	07 October 2022
Student Name	Mr. R.Prem kumar
Student Roll Number	621319106070
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.

## **Solution:**

```
#traffic light for raspberry pi simlulating in pycham with GUI
import turtle
import time
wn= turtle.getscreen()
wn.title("PremKumar")
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()
```

