## Assignment - 3

**Python Programming** 

Assignment Date	03 October 2022
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Maximum Marks	2 Marks

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Question-1:
Write a Python code for blinking LED and Traffic lights for Raspberry Pi.
Solution:
#traffic light for raspberry pi simulating in pycharm with GUI
import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By Divyamarlin")
wn.bgcolor("black")
#gui interface
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, -40)
#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 with GUI Interface**

