Assignment - 3
Python Programming

Assignment Date	03 October 2022
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Maximum Marks	2 Marks

Question-1:

Write a Python code for blinking LED and Traffic lights for Raspberry Pi.

<u>Solution :</u>

```
#traffic light for raspberry pi simulating in pycham with GUI

import turtle

import time

wn= turtle.getscreen()

wn.title("Stoplight By Divyamarlin")

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)
```

```python
#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)
```
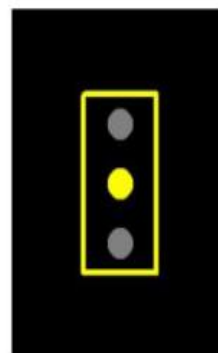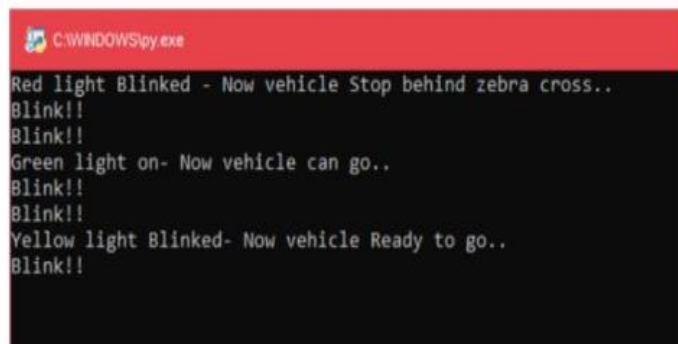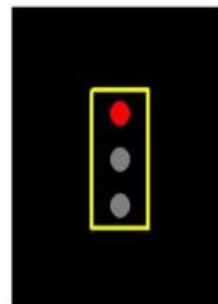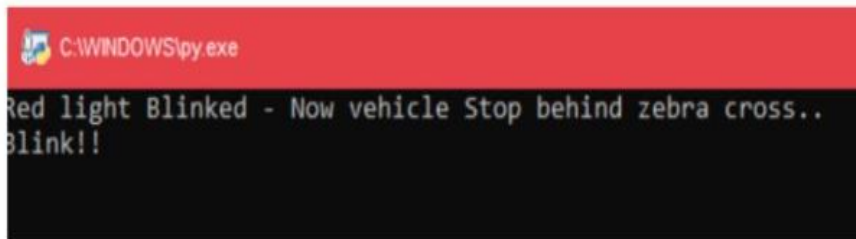
```
print("Blink!!")

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

```
Green light on- Now vehicle can go..
Blink!!
```