

Assignment -3
Python Programming

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| Assignment Date | 12 November 2022 |
| Team ID | PNT2022TMID44156 |
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| Student Roll Number | 724019104018 |
| Maximum Marks | 2 Marks |

Question:

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:

Program

```
import turtle
import time

wn= turtle.getscreen()
wn.title("Stoplight By AjmeerKaja")
wn.bgcolor("black")
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 Blinkd - 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:

