

Assignment:3

Assignment date	5-10-2022
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Maximum mark	2 Mark

Question-1:

write python code for blinking led and traffic light for raspberry pi

only python code is enough, no need to execute in raspberry pi

Solution :

```
// variables
```

```
int GREEN = 2;
```

```
int YELLOW = 3;
```

```
int RED = 4;
```

```
int DELAY_GREEN = 5000;
```

```
int DELAY_YELLOW = 2000;
```

```
int DELAY_RED = 5000;
```

```
// basic functions
```

```
void setup()
```

```
{
```

```
    pinMode(GREEN, OUTPUT);
```

```
    pinMode(YELLOW, OUTPUT);
```

```
    pinMode(RED, OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
    green_light();
```

```
    delay(DELAY_GREEN);  
    yellow_light();  
    delay(DELAY_YELLOW);  
    red_light();  
    delay(DELAY_RED);  
}
```

```
void green_light()  
{  
    digitalWrite(GREEN, HIGH);  
    digitalWrite(YELLOW, LOW);  
    digitalWrite(RED, LOW);  
}
```

```
void yellow_light()
```

```
{  
    digitalWrite(GREEN, LOW);  
    digitalWrite(YELLOW, HIGH);  
    digitalWrite(RED, LOW);  
}
```

```
void red_light()  
{  
    digitalWrite(GREEN, LOW);  
    digitalWrite(YELLOW, LOW);  
    digitalWrite(RED, HIGH);  
}
```