Assignment -3

Python programming

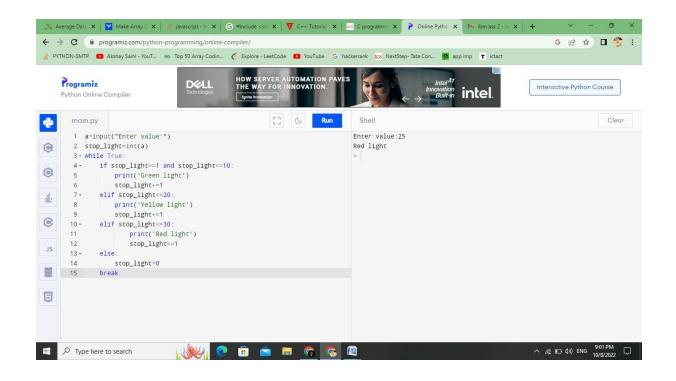| Assignment Date	30 September 2022
Student Name	Mudimela Swathi
Student Roll Number	210619106030
Maximum Marks	2 Marks

Question-1:

Write Python Code for blinking LED and traffic light for Raspberry pi(Only python code)

SOLUTION:

```
a=input("Enter                value:")
stop_light=int(a)  while  True:          if
stop_light>=1 and stop_light<=10:
    print('Green light')
stop_light+=1    elif
stop_light<=20:
print('Yellow light')
stop_light+=1    elif
stop_light<=30:
print('Red light')
stop_light==1    else:
stop_light=0    break
```

output:

main.py

```python
1  a=input("Enter value:")
2  stop_light=int(a)
3 ▾ while True:
4 ▾     if stop_light>=1 and stop_light<=10:
5          print('Green light')
6          stop_light+=1
7 ▾     elif stop_light<=20:
8          print('Yellow light')
9          stop_light+=1
10 ▾    elif stop_light<=30:
11             print('Red light')
12             stop_light==1
13 ▾    else:
14         stop_light=0
15     break
```

Shell

Clear

```
Enter value:25
Red light
>
```

```
-----------------------------------
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----------------------------------
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----------------------------------
High temperature is detetcted
Buzzer on,alarm sound is high
good humidity
-----------------------------------
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----------------------------------
Temprature reached maximum thershold of 30 degrees celsius
High humidity is detetcted
Buzzer on,alarm sound is high
-----------------------------------
High temperature is detetcted
Buzzer on,alarm sound is high
good humidity
-----------------------------------
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----------------------------------
High temperature is detetcted
```

main.py +

```python
 8        print("-----------------------------------")
 9        if a>40:
10            print("High temperature is detetcted")
11            print("Buzzer on,alarm sound is high")
12        elif a==40:
13            print("Temprature reached maximum thershold of 40 degrees celsius")
14        else:
15            print("Good temperature")
16    #for Humidity
17        if b>60 :
18            print("High humidity is detetcted")
19            print("Buzzer on,alarm sound is high")
20        elif a == 60:
              print("Humidity reached maximum thershold of 65 percent")
```

Ln: 23, Col: 31

▶ Run   → Share   Command Line Arguments

```
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
-----------------------------------
High temperature is detetcted
Buzzer on,alarm sound is high
High humidity is detetcted
Buzzer on,alarm sound is high
```