

ASSIGNMENT – 2

TEMPERATURE ALARM SYSTEM

TEAM MEMBERS:


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CODE:

```
import random
temperature=random.randint(1,100)
humidity=random.randint(1,100)
print(temperature)
print(humidity)
if((temperature<50) & (humidity<40)):
    print("temperature is normal")
    print("humdity is normal")
    print("alarm off")
elif((temperature<50)&(humidity >40)):
    print("temperature is low")
    print("humdity is high")
    print("alarm off")
elif((temperature>60)&(humidity <40)):
    print("temperature is high")
    print("humdity is high")
```

```
    print("alarm on")
elif((temperature>60)&(humidity >40)):
    print("temperature is high")
    print("humdity is low")
    print("alarm on")
else:
    print("temperature is very low")
    print("humidity is low")
    print("alarm off")
```

OUTPUT:

A screenshot of a code editor's output terminal. The terminal has a dark background with light-colored text. At the top, there are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL'. The 'OUTPUT' tab is selected. To the right of the tabs, there is a 'Code' button and some icons. The output text shows the execution of a Python script. It starts with '[Running] python -u "C:\Users\mpras\AppData\Local\Temp\tempCodeRunnerFile.python"'. Below this, the script's output is displayed: '96', '62', 'temperature is high', 'humdity is low', and 'alarm on'. At the bottom, it shows '[Done] exited with code=0 in 0.175 seconds'.