

PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT

Assignment 2:

Build a python code. Assume u get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import random
import time
while (1):
    Temperature = random.randint(0, 100)
    Humidity = random.randint(0, 100)
    if Temperature>60 and Humidity>60:
        print("ALERT!! Detected temperature: " +
              str(Temperature) + "°C" + " " + "Detected humidity: " +
              str(Humidity))
    elif Temperature > 60:
        print("ALERT!! Detected temperature: " +
              str(Temperature) + "°C")
    elif Humidity > 60:
        print("ALERT!! Detected humidity: " + str(Humidity))
    time.sleep(1)
```

output:

The screenshot shows the Programiz Python Online Compiler interface. The browser tabs include 'Welcome to Project', 'IBM', 'IBM-Project-21871-1', 'opt out meaning in t', 'Online Python Compiler', and 'New Tab'. The address bar shows 'programiz.com/python-programming/online-compiler/'. The Programiz logo and 'Python Online Compiler' text are at the top left, with an 'Interactive Python Course' button at the top right. The main area is divided into a code editor on the left and a shell on the right. The code editor shows a file named 'main.py' with the following Python code:

```
1 import random
2 import time
3 while (1):
4     Temperature = random.randint(0, 100)
5     Humidity = random.randint(0, 100)
6     if Temperature > 60 and Humidity > 60:
7         print("ALERT!! Detected temperature: " + str(Temperature) +
              "°C" + " " + "Detected humidity: " + str(Humidity))
8     elif Temperature > 60:
9         print("ALERT!! Detected temperature: " + str(Temperature) +
              "°C")
10    elif Humidity > 60:
11        print("ALERT!! Detected humidity: " + str(Humidity))
12    time.sleep(1)
13
```

The shell on the right shows the output of the script, which consists of multiple lines of 'ALERT!! Detected temperature: ...°C' and 'ALERT!! Detected humidity: ...' messages. The bottom status bar shows 'Connecting...', '81°F Mostly cloudy', and the system tray with icons for Windows, search, task view, and various applications, along with the date '28-09-2022' and time '19:08'.