

**Assignment -2**  
Python Programming

Assignment Date	21 September 2022
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Student Roll Number	815119106303
Maximum Marks	2 Marks

**Question-1:**

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

**Solution:**

**PROGRAM**

```
import random as rd

while 1:

    a=rd.randint(10,100)
    b=rd.randint(10,100)

    if a>=80:

        if b>80:

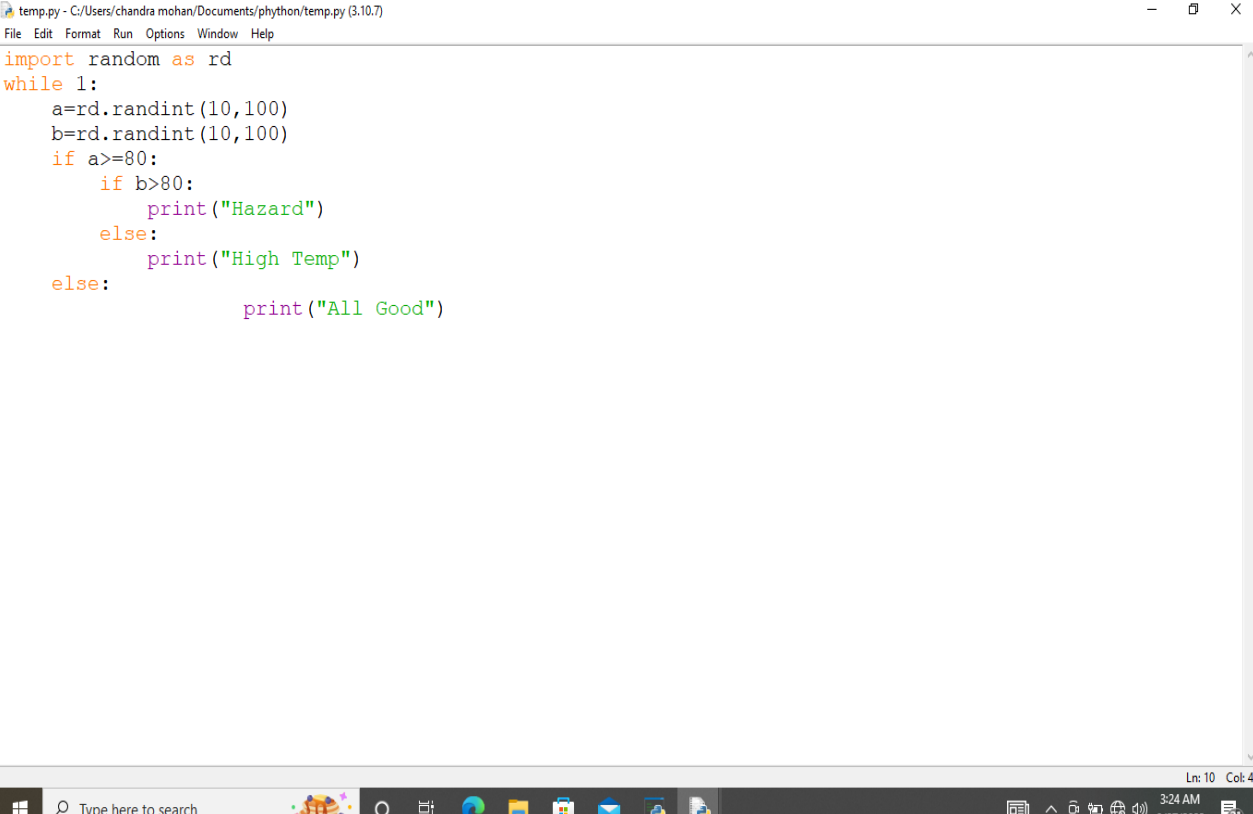
            print("Hazard")

        else:

            print("High Temp")

    else:

        print("All Good")
```

A screenshot of a Windows desktop environment. At the top, a window titled 'temp.py - C:/Users/chandra mohan/Documents/phython/temp.py (3.10.7)' is open. The window contains a Python script with the following code:

```
import random as rd
while 1:
    a=rd.randint(10,100)
    b=rd.randint(10,100)
    if a>=80:
        if b>80:
            print("Hazard")
        else:
            print("High Temp")
    else:
        print("All Good")
```

The script uses a while loop to generate two random integers, a and b, between 10 and 100. It then checks if a is greater than or equal to 80. If so, it checks if b is greater than 80. If both conditions are met, it prints "Hazard". If only a is greater than or equal to 80, it prints "High Temp". If neither condition is met, it prints "All Good". The taskbar at the bottom shows the Start button, a search bar, and several application icons including a web browser, file explorer, and communication apps. The system clock in the bottom right corner shows the time as 3:24 AM on 9/27/2022.

OUTPUT:

The screenshot shows a Windows 10 desktop environment. A terminal window titled "IDLE Shell 3.10.7\*" is open, displaying a list of status messages in blue text: "All Good", "High Temp", and "Hazard". The messages are repeated in a sequence. The terminal window has a menu bar with "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The taskbar at the bottom includes the Start button, a search bar, and several pinned application icons: a game, File Explorer, Microsoft Edge, the Task View icon, Mail, and a folder icon. The system tray on the right shows the date and time as "3:24 AM 9/27/2022" and a notification icon with the number "21".

File Edit Shell Debug Options Window Help

All Good  
All Good  
All Good  
All Good  
All Good  
All Good  
All Good  
All Good  
High Temp  
All Good  
Hazard  
All Good  
All Good  
All Good  
All Good  
All Good  
All Good  
Hazard  
All Good  
High Temp  
All Good  
All Good  
All Good  
All Good  
All Good  
All Good  
All Good  
High Temp

Ln: 2147 Col: 0

Type here to search

3:24 AM  
9/27/2022

