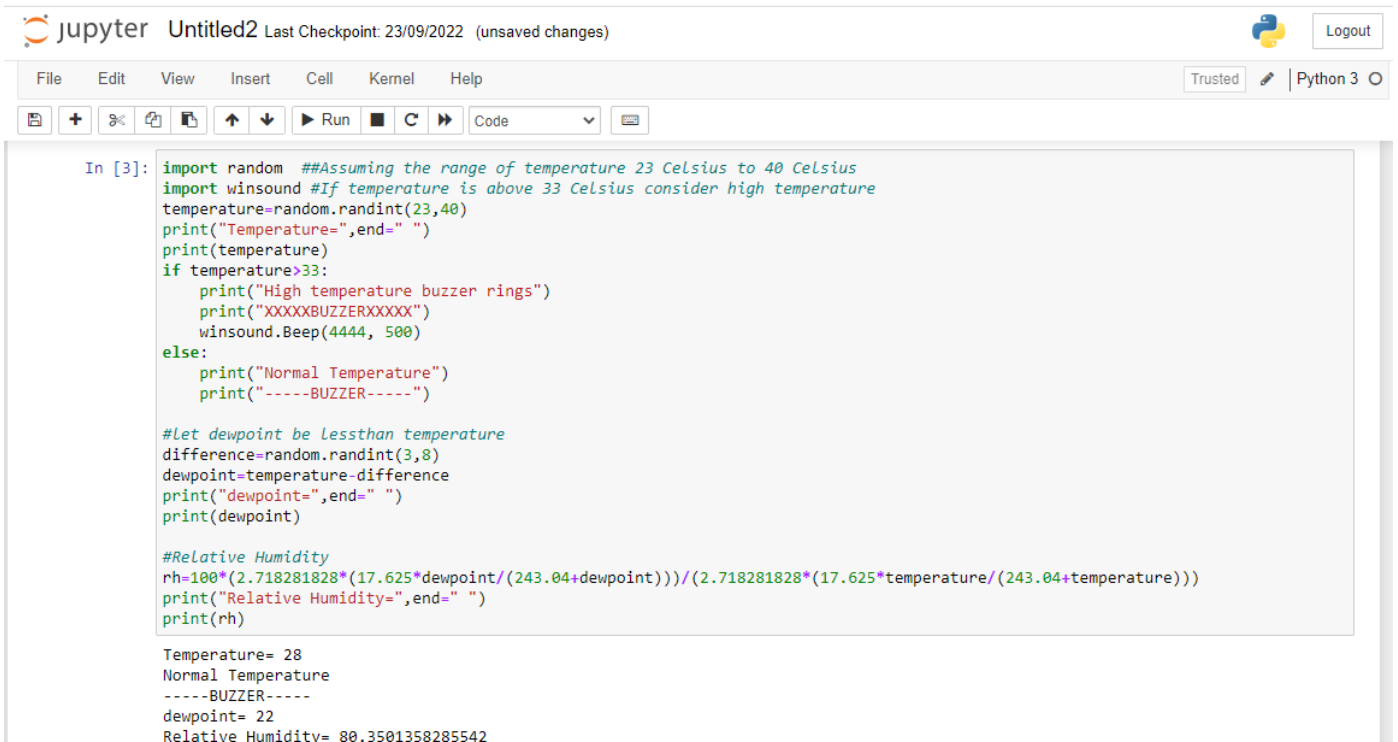


ASSIGNMENT -2

SUBHASHRI K S (111519106154)

Build a python code,
Assume u 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.



The image shows a Jupyter Notebook interface. The top bar includes the Jupyter logo, the filename 'Untitled2', and the last checkpoint '23/09/2022 (unsaved changes)'. On the right, there is a 'Logout' button. Below the top bar is a menu bar with 'File', 'Edit', 'View', 'Insert', 'Cell', 'Kernel', and 'Help'. To the right of the menu bar are 'Trusted' and 'Python 3' indicators. Below the menu bar is a toolbar with icons for file operations, running, and code execution. The main area contains a code cell with the following Python code:

```
In [3]: import random ##Assuming the range of temperature 23 Celsius to 40 Celsius
import winsound #If temperature is above 33 Celsius consider high temperature
temperature=random.randint(23,40)
print("Temperature=",end=" ")
print(temperature)
if temperature>33:
    print("High temperature buzzer rings")
    print("XXXXXBUZZERXXXXX")
    winsound.Beep(4444, 500)
else:
    print("Normal Temperature")
    print("-----BUZZER-----")

#Let dewpoint be Less than temperature
difference=random.randint(3,8)
dewpoint=temperature-difference
print("dewpoint=",end=" ")
print(dewpoint)

#Relative Humidity
rh=100*(2.718281828*(17.625*dewpoint/(243.04+dewpoint)))/(2.718281828*(17.625*temperature/(243.04+temperature)))
print("Relative Humidity=",end=" ")
print(rh)

Temperature= 28
Normal Temperature
-----BUZZER-----
dewpoint= 22
Relative Humidity= 80.3501358285542
```