NALAIYA THIRAN - IBM

ASSIGNMENT – 2 :

```python
import random
#Assuming the range of temperature 23 Celsius to 40 Celsius
#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 lessthan 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)

```

input

```
Temperature= 30
Normal Temperature
-----BUZZER-----
dewpoint= 26
Relative Humidity= 87.95519873129149


..Program finished with exit code 0
Press ENTER to exit console.
```

ROLL NUMBER - 111519106132