

Assignment - 2

NAME – KAVIYA.S

Python code :

```
#Temperature and humidity sensing alarm
```

```
import random
```

```
while(True):
```

```
    a=random.randint(10,100)
```

```
    b=random.randint(10,100)
```

```
    if(a>35 and b>60):
```

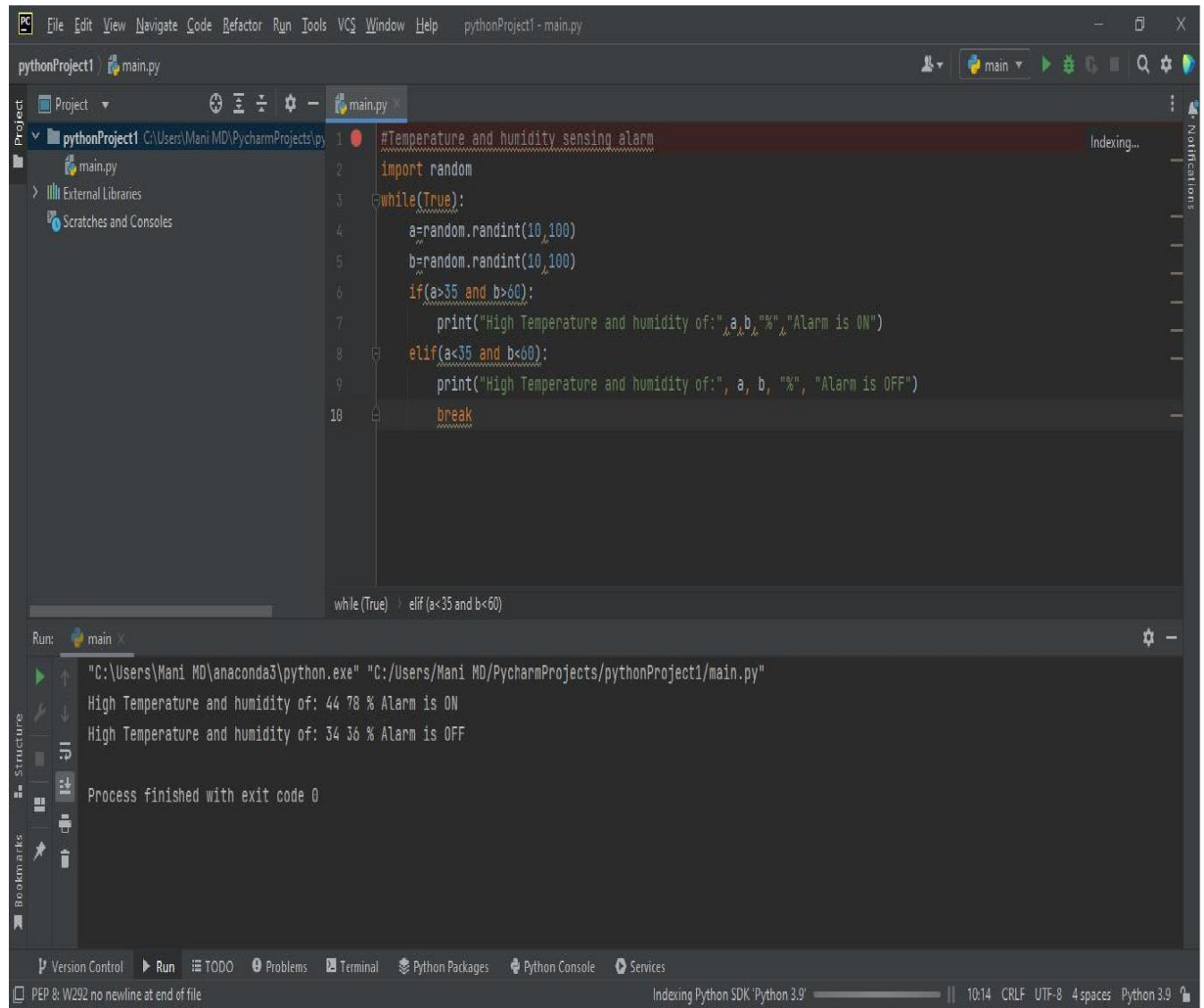
```
        print("High Temperature and humidity of:",a,b,"%","Alarm is ON")
```

```
    elif(a<35 and b<60):
```

```
        print("High Temperature and humidity of:", a, b, "%", "Alarm is OFF")
```

```
        break
```

OUTPUT:



The image shows a PyCharm IDE window with a Python project named 'pythonProject1'. The main file, 'main.py', contains a script titled '#Temperature and humidity sensing alarm'. The script imports the 'random' module and enters a 'while(True):' loop. Inside the loop, it generates random values for 'a' and 'b' using 'random.randint(10,100)'. It then checks two conditions: 'if(a>35 and b>60):' and 'elif(a<35 and b<60):'. Depending on the condition, it prints a message indicating whether the alarm is 'ON' or 'OFF'. The loop is broken after the first iteration. The 'Run' window at the bottom shows the execution output, which matches the script's logic: 'High Temperature and humidity of: 44 78 % Alarm is ON' followed by 'High Temperature and humidity of: 34 36 % Alarm is OFF'. The process finished with exit code 0.

```
1 #Temperature and humidity sensing alarm
2 import random
3 while(True):
4     a=random.randint(10,100)
5     b=random.randint(10,100)
6     if(a>35 and b>60):
7         print("High Temperature and humidity of:",a,b,"%", "Alarm is ON")
8     elif(a<35 and b<60):
9         print("High Temperature and humidity of:", a, b, "%", "Alarm is OFF")
10    break
```

Run: main

```
"C:\Users\Mani MD\anaconda3\python.exe" "C:/Users/Mani MD/PycharmProjects/pythonProject1/main.py"
High Temperature and humidity of: 44 78 % Alarm is ON
High Temperature and humidity of: 34 36 % Alarm is OFF
Process finished with exit code 0
```

PEP 8: W292 no newline at end of file | Indexing Python SDK 'Python 3.9' | 10:14 CRLF UTF-8 4 spaces Python 3.9