

ASSINGNMENT 2

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 .

Solution:

```
print("Welcome To The Body Temperature Monitoring System")
```

```
print()
```

```
first_name = input('Enter the First Name : ')
```

```
last_name = input('Enter the Last Name : ')
```

```
dob = input('Enter the DOB : ')
```

```
mobile = int(input('Enter the Mobile Number : '))
```

```
blood = input('Enter the Blood Group : ')
```

```
address = input('Enter the Address: ')
```

```
pincode = int(input('Enter the Pincode : '))
```

```
temp = int(input('Enter the temperature : '))
```

```
print('Enter in which you want to convert ?')
```

```
user = int(input("1. Celsius\n2. Fahrenheit\n"))
```

```
if user == 1:
```

```
    # calculate celsius
```

```
    result = (temp - 32) / 1.8

    convention = "Celsius"

elif user == 2:

    # calculate fahrenheit

    result = (temp * 1.8) + 32

    convention = "Fahrenheit"

else:

    # irrelevant data

    print("Input proper convention.")

    quit()


print("The temperature in", convention, "is", result, "degrees.")

print()

if result > 98.6 and convention == "Fahrenheit":

    print("Hi", first_name, "your Temperature is raised in above 98.6",
          "degrees",
          convention, "so,")

    print("Dr", first_name, "Please check your body temperature.")

    print()

elif result > 37 and convention == "Celsius":

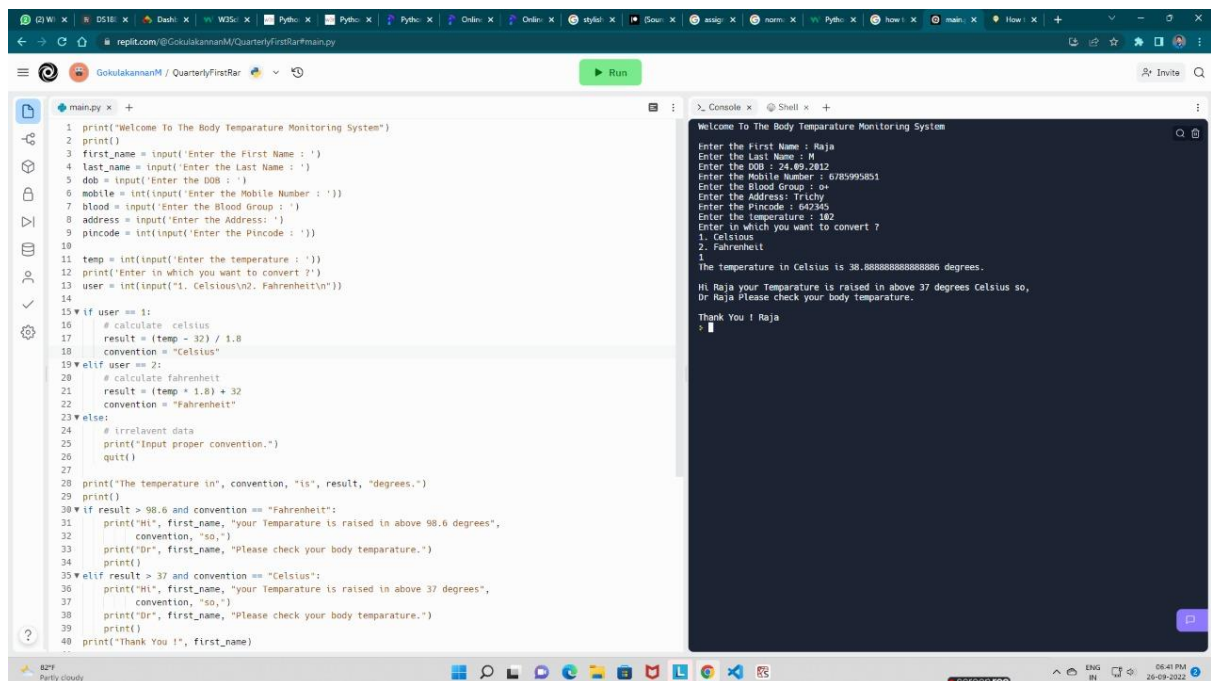
    print("Hi", first_name, "your Temperature is raised in above 37",
          "degrees",
```

convention, "so,")

print("Dr", first_name, "Please check your body temperature.")

print()

print("Thank You !", first_name)



The screenshot displays a web-based Python IDE interface. The left pane shows the source code for a program titled 'main.py'. The code prompts the user for personal information (name, DOB, mobile, blood group, address, pincode) and temperature. It then asks the user to choose a temperature convention (1 for Celsius, 2 for Fahrenheit). The program calculates the temperature in the chosen convention and checks if it is above 98.6 degrees Fahrenheit or 37 degrees Celsius. If so, it prints a warning message. Finally, it prints a thank you message.

```
1 print("Welcome To The Body Temperature Monitoring System")
2 print()
3 first_name = input('Enter the First Name : ')
4 last_name = input('Enter the Last Name : ')
5 dob = input('Enter the DOB : ')
6 mobile = int(input('Enter the Mobile Number : '))
7 blood = input('Enter the Blood Group : ')
8 address = input('Enter the Address : ')
9 pincode = int(input('Enter the Pincode : '))
10
11 temp = int(input('Enter the temperature : '))
12 print('Enter in which you want to convert ?')
13 user = int(input("1. Celsius\n2. Fahrenheit\n"))
14
15 if user == 1:
16     # calculate celsius
17     result = (temp - 32) / 1.8
18     convention = "Celsius"
19 elif user == 2:
20     # calculate fahrenheit
21     result = (temp * 1.8) + 32
22     convention = "Fahrenheit"
23 else:
24     # irrelevant data
25     print("Input proper convention.")
26     quit()
27
28 print("The temperature in", convention, "is", result, "degrees.")
29 print()
30 if result > 98.6 and convention == "Fahrenheit":
31     print("Hi", first_name, "your Temperature is raised in above 98.6 degrees",
32           convention, "so,")
33     print("Dr", first_name, "Please check your body temperature.")
34     print()
35 elif result > 37 and convention == "Celsius":
36     print("Hi", first_name, "your Temperature is raised in above 37 degrees",
37           convention, "so,")
38     print("Dr", first_name, "Please check your body temperature.")
39     print()
40 print("Thank You !", first_name)
```

The right pane shows the console output of the program. The user has entered the following information: First Name: Raja, Last Name: M, DOB: 24.09.2012, Mobile Number: 6785995051, Blood Group: O+, Address: Trichy, Pincode: 642345, Temperature: 102, and Convention: 1 (Celsius). The program output shows the temperature in Celsius as 38.888888888888886 degrees. It then prints a warning message: "Hi Raja your Temperature is raised in above 37 degrees Celsius so, Dr Raja Please check your body temperature." and finally prints "Thank You ! Raja".

```
Welcome To The Body Temperature Monitoring System
Enter the First Name : Raja
Enter the Last Name : M
Enter the DOB : 24.09.2012
Enter the Mobile Number : 6785995051
Enter the Blood Group : O+
Enter the Address: Trichy
Enter the Pincode : 642345
Enter the temperature : 102
Enter in which you want to convert ?
1. Celsius
2. Fahrenheit
1
The temperature in Celsius is 38.888888888888886 degrees.
Hi Raja your Temperature is raised in above 37 degrees Celsius so,
Dr Raja Please check your body temperature.
Thank You ! Raja
```

The image shows a web-based IDE interface with a file explorer on the left, a code editor in the center, and a console on the right. The code editor contains a Python script for a 'Body Temperature Monitoring System'. The script prompts the user for personal information (name, DOB, mobile, blood group, address, pincode) and temperature. It then asks for the temperature unit (Celsius or Fahrenheit) and calculates the result. The console shows the execution of the script with user input: 'siva', 'G', '86.65-2822', '9957485451', 'A', 'Dindigul', '674542', '50', and '1' for Celsius. The output shows the calculated temperature in Celsius and Fahrenheit, followed by a warning message because the temperature is above 98.6 degrees Fahrenheit and 37 degrees Celsius. The script ends with a thank you message.

```
1 print("Welcome To The Body Temperature Monitoring System")
2 print()
3 first_name = input('Enter the First Name : ')
4 last_name = input('Enter the Last Name : ')
5 dob = input('Enter the DOB : ')
6 mobile = int(input('Enter the Mobile Number : '))
7 blood = input('Enter the Blood Group : ')
8 address = input('Enter the Address : ')
9 pincode = int(input('Enter the Pincode : '))
10
11 temp = int(input('Enter the temperature : '))
12 print('Enter in which you want to convert ?')
13 user = int(input("1. Celsius\n2. Fahrenheit\n"))
14
15 if user == 1:
16     # calculate celsius
17     result = (temp - 32) / 1.8
18     convention = "Celsius"
19 elif user == 2:
20     # calculate fahrenheit
21     result = (temp * 1.8) + 32
22     convention = "Fahrenheit"
23 else:
24     # irrelevant data
25     print("Input proper convention.")
26     quit()
27
28 print("The temperature in", convention, "is", result, "degrees.")
29 print()
30 if result > 98.6 and convention == "Fahrenheit":
31     print("Hi", first_name, "your Temperature is raised in above 98.6 degrees",
32           convention, "so,")
33     print("Dr", first_name, "Please check your body temperature.")
34     print()
35 elif result > 37 and convention == "Celsius":
36     print("Hi", first_name, "your Temperature is raised in above 37 degrees",
37           convention, "so,")
38     print("Dr", first_name, "Please check your body temperature.")
39     print()
40 print("Thank You !", first_name)
```

Console Output:

```
Welcome To The Body Temperature Monitoring System
Enter the First Name : siva
Enter the Last Name : G
Enter the DOB : 86.65-2822
Enter the Mobile Number : 9957485451
Enter the Blood Group : A
Enter the Address : Dindigul
Enter the Pincode : 674542
Enter the Temperature : 50
Enter in which you want to convert ?
1. Celsius
2. Fahrenheit
3
Input proper convention.
^KeyboardInterrupt:
^KeyboardInterrupt:
```