

## ASSIGNMENT 2

SOFTWARE COMPONENT: PYTHON

CODE:

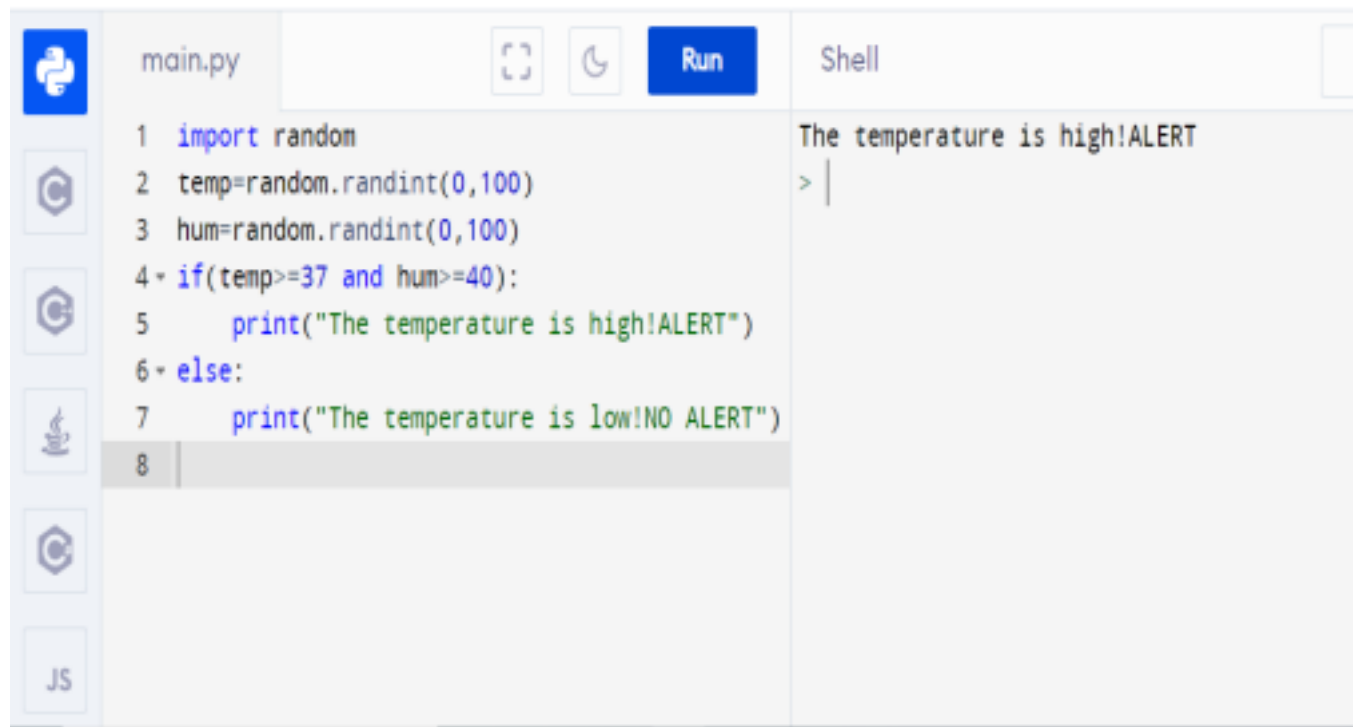


```
main.py  [Full Screen] [Dark Theme] [Run]

1  import random
2  temp=random.randint(0,100)
3  hum=random.randint(0,100)
4  if(temp>=37 and hum>=40):
5      print("The temperature is high!ALERT")
6  else:
7      print("The temperature is low!NO ALERT")
8
```

The image shows a Python IDE interface. On the left is a sidebar with icons for Python, C, C++, Java, and JavaScript (JS). The main editor area displays a file named 'main.py' containing a Python script. The script imports the 'random' module and generates two random integers, 'temp' and 'hum', both ranging from 0 to 100. It then uses an 'if' statement to check if 'temp' is greater than or equal to 37 and 'hum' is greater than or equal to 40. If true, it prints 'The temperature is high!ALERT'. Otherwise, it prints 'The temperature is low!NO ALERT'. The line numbers 1 through 8 are visible on the left of the code. At the top right of the editor, there are buttons for 'Full Screen', 'Dark Theme', and 'Run'.

**AFTER COMPILING:**



The image shows a code editor interface with a file named 'main.py'. The code is a Python script that uses the 'random' module to generate random temperature and humidity values. It includes an 'if' statement to check if the temperature is greater than or equal to 37 and the humidity is greater than or equal to 40. If true, it prints 'The temperature is high!ALERT'. Otherwise, it prints 'The temperature is low!NO ALERT'. The 'Run' button is highlighted in blue. The output shell shows the result of the execution: 'The temperature is high!ALERT' followed by a prompt '> |'.

```
main.py [Run] Shell
1 import random
2 temp=random.randint(0,100)
3 hum=random.randint(0,100)
4 if(temp>=37 and hum>=40):
5     print("The temperature is high!ALERT")
6 else:
7     print("The temperature is low!NO ALERT")
8
```

The temperature is high!ALERT  
> |

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