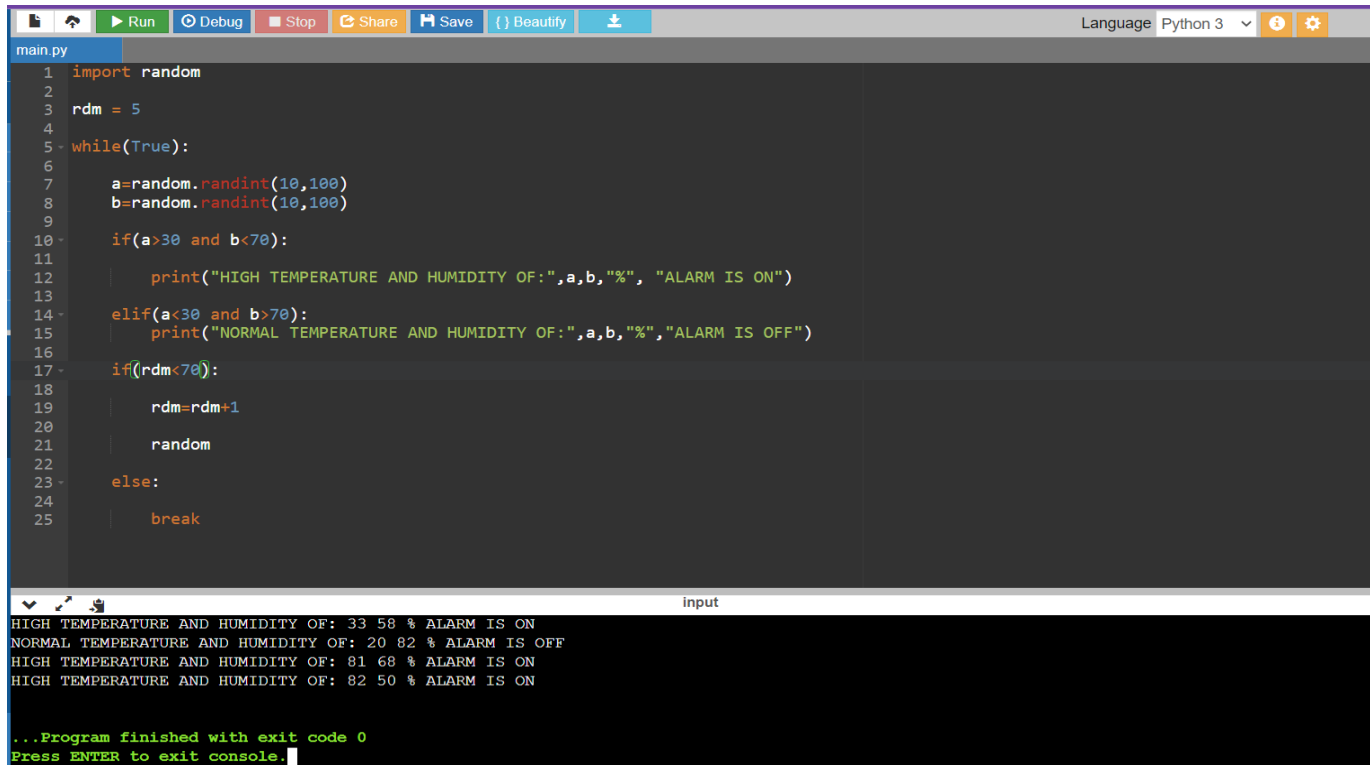


TEMPERATURE AND HUMIDITY SENSING IN PYTHON

ASSIGNMENT 2



The image shows a screenshot of a Python IDE with a dark theme. The top toolbar includes buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Python 3. The file is named main.py. The code is as follows:

```
1 import random
2
3 rdm = 5
4
5 while(True):
6
7     a=random.randint(10,100)
8     b=random.randint(10,100)
9
10    if(a>30 and b<70):
11
12        print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS ON")
13
14    elif(a<30 and b>70):
15        print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS OFF")
16
17    if(rdm<70):
18
19        rdm=rdm+1
20
21        random
22
23    else:
24
25        break
```

The console output shows the following:

```
input
HIGH TEMPERATURE AND HUMIDITY OF: 33 58 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 20 82 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 81 68 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 82 50 % ALARM IS ON

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

PROGRAM:

```
import random
```

```
rdm = 5
```

```
while(True):
```

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

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

```
    if(a>30 and b<70):
```

```
        print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS ON")
```

```
    elif(a<30 and b>70):
```

```
        print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%", "ALARM IS OFF")
```

```
    if(rdm<70):
```

```
        rdm=rdm+1
```

```
        random
```

```
    else:
```

```
        break
```