

SRI SHANMUGHA COLLEGE OF ENGINEERING AND TECHNOLOGY

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ASSIGNMENT-2

ASSIGNMENT: Build a python code, Assume you get a temperature and humidity values(generated with random function to a variable) and write a condition to detect alarm in case of high temperature.

```
import random
```

```
while(True):
```

```
    temp=random.randint(10,99)
```

```
    humid=random.randint(10,99)
```

```
    print("current temperature:",temp)
```

```
    print("current humidity:",humid,"%")
```

```
    temp_ref=37
```

```
    humid_ref=35
```

```
    if temp>temp_ref and humid<humid_ref:
```

```
        print("Alarm On")
```

```
    else:
```

```
        print("Alarm off")
```

```
break
```

Output:

```
import random

while(True):

    temp=random.randint(10,99)
    humid=random.randint(10,99)

    print("current temperature:",temp)
    print("current humidity:",humid,"%")

    temp_ref=37
    humid_ref=35

    if temp>temp_ref and humid<humid_ref:
        print("Alarm On")
    else:
        print("Alarm off")
        break
```

```
current temperature: 54
current humidity: 28 %
Alarm On
current temperature: 54
current humidity: 96 %
Alarm off
```