

# Software Test:

## Test Code:

// Online C++ compiler to run C++ program online

```
#include <iostream>
```

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
string getResultPhrase(double result) {
```

```
    string resultText = "";
```

```
    if (result >= 30) {
```

```
        resultText = "Obese";
```

```
    } else if (result > 25 && result < 30) {
```

```
        resultText = "Overweight";
```

```
    } else if (result >= 18.5 && result <= 24.9) {
```

```
        resultText = "Normal" ;
```

```
    } else {
```

```
        resultText = "Thin" ;
```

```
    }
```

```
    return resultText;
```

```
}
```

```
int main() {
```

```
    double result;
```

```
    while(true){
```

```
        double h,w;
```

```
        cin>>h,w;
```

```
        result= w / pow(h / 100, 2);
```

```
        cout<<getResultPhrase(result)<<endl;
```

```
    }
```

```
    return 0;
```

```
}
```

1. Height = 170 cm, Weight = 60 kg → Normal
2. Height = 160 cm, Weight = 70 kg → Over Weight
3. Height = 180 cm, Weight = 85 kg → Over Weight
4. Height = 190 cm, Weight = 100 kg → Over Weight
5. Height = 150 cm, Weight = 50 kg → Normal
6. Height = 165 cm, Weight = 45 kg → Thin
7. Height = 180 cm, Weight = 75 kg → Normal
8. Height = 155 cm, Weight = 80 kg → Obese
9. Height = 175 cm, Weight = 70 kg → Normal
10. Height = 190 cm, Weight = 80 kg → Normal
11. Height = 165 cm, Weight = 55 kg → Normal
12. Height = 175 cm, Weight = 90 kg → Over Weight
13. Height = 160 cm, Weight = 60 kg → Normal
14. Height = 185 cm, Weight = 110 kg → Obese
15. Height = 170 cm, Weight = 65 kg → Normal
16. Height = 175 cm, Weight = 50 kg → Thin
17. Height = 190 cm, Weight = 120 kg → Obese
18. Height = 160 cm, Weight = 80 kg → Obese
19. Height = 165 cm, Weight = 100 kg → Obese
20. Height = 180 cm, Weight = 95 kg → Over Weight
21. Height = 170 cm, Weight = 70 kg → Normal
22. Height = 165 cm, Weight = 80 kg → Over Weight
23. Height = 190 cm, Weight = 110 kg → Obese
24. Height = 155 cm, Weight = 45 kg → Thin
25. Height = 180 cm, Weight = 60 kg → Thin
26. Height = 167 cm, Weight = 70 kg → Normal
27. Height = 185 cm, Weight = 85 kg → Over Weight
28. Height = 162 cm, Weight = 48 kg → Thin
29. Height = 193 cm, Weight = 130 kg → Obese
30. Height = 175 cm, Weight = 72 kg → Normal
31. Height = 160 cm, Weight = 55 kg → Normal
32. Height = 175 cm, Weight = 92 kg → Over Weight
33. Height = 150 cm, Weight = 45 kg → Thin
34. Height = 187 cm, Weight = 105 kg → Obese
35. Height = 158 cm, Weight = 60 kg → Normal
36. Height = 183 cm, Weight = 95 kg → Over Weight
37. Height = 170 cm, Weight = 58 kg → Normal
38. Height = 192 cm, Weight = 120 kg → Obese
39. Height = 157 cm, Weight = 42 kg → Thin
40. Height = 179 cm, Weight = 78 kg → Normal

























