

**[LAB2\_1]** write a program to read weight and height for computing the Body Mass Index (BMI):

$$\text{BMI} = \text{Weight in kilograms} / (\text{Height in meters})^2$$

and then categorize it into underweight (< 18.5), normal weight (18.6 – 24.0) , overweight (25.0 -29.9) , or obese (>= 30.0) based on the BMI value.

**Input**

**w h** indicates weight (kilograms) and height (meters), separating a white space where  $1.0 < w < 200.0$  and  $1.0 \leq h \leq 2.0$

**Output**

print “underweight”, “normal weight”, “overweight” or “obese” based on the BMI criterion.

Input sample	Output sample
50.0 1.60	normal weight
110.0 1.80	Obese