The body mass index (BMI), is a statistical measure which compares a person's weight and height. Due to its ease of measurement and calculation, it is the most widely used diagnostic tool to identify weight problems within a population, usually whether individuals are underweight, overweight or obese. Body mass index is defined as the individual's body weight divided by the square of his or her height.

$$BMI = \frac{\text{weight in KG}}{(\text{height in meters})^2}$$

A person's BMI "score" can be categorised according to the following table.

Category	BMI Score
Emaciation	Less than 14.9
Underweight	From 15 to 18.4
Normal	From 18.5 to 22.9
Overweight	From 23 to 27.5
Obese	From 27.6 to 40
Morbidly Obese	Greater than 40

Write a client/server application where the client will accept as input a person weight (in KG) as a double and a person's height (in meters) also as a double. These values must be passed to the server application where it will determine the client's BMI category. This category must then be passed back to the client, where it will be displayed on the console.

The server does not have to be multithreaded but must continually accept values (a person’s weight and height) from the client.