NZ BMI Calculator

Purpose

The purpose of this program is to calculate the BMI of an individual to one decimal place with the individual's weight, height and ethnicity, in order to provide a general indication of whether the individual is underweight, overweight, or a healthy weight for their height. Additionally, this program will give the individual a general indication towards their risk of obesity related diseases.

Programming Language

This calculator will be programmed using Python 3.2.

Data Dictionary

Data item	Data type	Variable name
The individual's inputted weight (kg)	Integer	userWeight
The individual's inputted height (m)	Integer	userHeight
The individual's inputted ethnicity	String	userEthnicity
Valid ethnicities	List	validEthnicities
The individual's calculated BMI	Float	userBMI
The individual's		
Lower BMI index classification ceiling for underweight NZ Europeans	Float	euroUnderweight
Lower BMI index classification ceiling for healthy weight NZ Europeans	Float	euroHealthy
Lower BMI index classification ceiling for overweight NZ Europeans	Float	euroOverweight
Lower BMI index classification ceiling for obese NZ Europeans	Float	euroObese
Lower BMI index classification ceiling for underweight Pacific Island & Māori	Float	maoUnderweight
Lower BMI index classification ceiling for healthy weight Pacific Island & Māori	Float	maoHealthy
Lower BMI index classification ceiling for overweight Pacific Island & Māori	Float	maoOverweight
Lower BMI index classification ceiling for obese Pacific Island & Māori	Float	maoObese
Lower BMI index classification ceiling for underweight Asian & Indian	Float	asiaUnderweight
Lower BMI index classification ceiling for healthy weight Asian & Indian	Float	asiaHealthy
Lower BMI index classification ceiling for overweight Asian & Indian	Float	asiaOverweight
Lower BMI index classification ceiling for obese Asian & Indian	Float	asiaObese