

CSULB
CECS100

Lab10

Draw the flowchart, and the tree diagram to solve the following problem

The Harris-Benedict equation estimates the number of calories your body needs to maintain your weight if you do not exercise. This is called your Base Metabolic Rate or BMR.

The calories needed for a woman to maintain her weight is:
$$\text{BMR} = 655 + (4.3 \times \text{weight in pounds}) + (4.7 \times \text{height in inches}) - (4.7 \times \text{age in years})$$

The calories needed for a man to maintain his weight is:
$$\text{BMR} = 66 + (6.3 \times \text{weight in pounds}) + (12.9 \times \text{height in inches}) - (6.8 \times \text{age in years})$$

A typical chocolate bar will contain around 230 calories.

Prompt the user to enter name, weight, height and gender, calculate the BMR and output the information based on the gender

Write the Python code related to this problem.

Copy and paste your code and two sample outputs (one for male, another for a female)

Using dual selection (if-else statements), the modify your flowchart to handle the case when the user will not enter the correct gender to give an error message.
Modify your code using the dual selection to handle an error entry.

Copy and paste your code and three sample outputs (one for male, another for a female, and an error)