

Question 1 [Marks 10]

Write a Python program to implement a simple calculator with four basic arithmetic operations: addition, subtraction, multiplication, and division. The program should get the choice of operation from the user (addition/subtraction/multiplication/division) and then get the operands. At the end, the program should print the result

Question 2 [Marks 10]

Write a Python program to calculate body mass index (BMI). The input height and weight in meters and kilograms, respectively, should be obtained from the user.

- If BMI ≤ 18.5 . Print, you are underweight • If $18.5 < \text{BMI} \leq 25$. Print your weight is normal
- If BMI > 25 . Print you are overweight.

Question 3 [Marks 10]

Write a Python program to Extract Unique dictionary values. Create a dictionary on your own to solve this.

Question 4 [Marks 10]

Write a Python program to find if a number is a happy number or not. A happy number is a positive integer that, when you repeatedly replace the number by the sum of the squares of its digits and continue the process, eventually reaches 1. If the process never reaches 1 but instead loops endlessly in a cycle, the number is not a Happy Number.