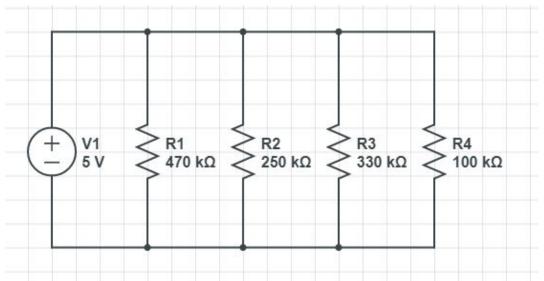
Pre Test (15 Marks)

1) Write <u>a function</u> to calculate the total resistance (resistors in parallels) <u>using Python's list as a parameter</u> (no need to limit the maximum number of R) and use your function to calculate the total resistance in this circuit



2) Write the program to exchange the coins. Receive the amount of your exchanging money and return the number of coins in case of 10\(\mathbb{B}\)-coins, 5\(\mathbb{B}\)-coins, and 1\(\mathbb{B}\)-coins Example:

Please enter the amount of exchanging money: 859

You received 10\(\textit{8}\)-coins: 85
You received 5\(\textit{8}\)-coins: 1
You received 1\(\textit{8}\)-coins: 4

3) Write a function to check the right triangle (has 1 angle = 90) by input parameters as the length of sides of triangle. Hint: In the right triangle, the length of sides are like this, $a^2+b^2=c^2$

Example:

Enter the length of the triangle's sides:

a = 3

b = 4

c = 5

Your triangle is a right triangle.

Enter the length of the triangle's sides:

a = 3

b = 3

c = 3

Your triangle is not a right triangle.

4) Write a program to calculate the train ticket's price. User will enter the started station and the destination station. You program will calculate the ticket's price. We have 7 stations as shown below:



Stations	Prices
1	25
2~3	37
4~5	45
6~7	60

Example:

Enter the started station: C Enter the destination station: G Prices for 4 stations is 45 Baht

5) Write a program to share the bill of a dinner. By everyone must pay and afford to pay the total price and still have a tip for the waiter. Program will be repeated until enter the cost of a dinner is 0

Example:

Enter the cost of a dinner: 1027 Baht Enter the number of people: 8 Each person must pay: 129 Baht and tip for the waiter is: 5 Baht