Practical 3: Arrays

Q1.   Write a program to process quiz scores. The user should first input the total scores to be processed. Next, the program should read the specified number of scores from the user and determine how many scores are above or equal to the average and how many scores are below the average.

Sample output:

```
Enter number of quiz scores to process: 5

Score 1: 10
Score 2: 8
Score 3: 9
Score 4: 2
Score 5: 4

Results
=======
Average is 6.6
Number of scores above or equal to the average is 3
Number of scores below the average is 2
```

Q2.   Write a method that returns the index of the smallest element in an array of integers. If there is more than one such element, return the smallest index. The method should receive an array of integers as the parameter.
Test your method by creating an array of integer numbers named `list`, which contains the following integers: 1, 2, 4, 5, 10, 100, 2 and -22. The output should return 7 as the index of the smallest element in this array.

Q3.   A banking program requires a breakdown of banknotes of various denominations to be entered during transferring of fund from one teller to another. A sample of the input screen is shown below after a teller has entered the quantity of each denomination:

```
Denomination (RM)        Quantity
          100               26
           50               87
           20               96
           10               0
            5               33
            1               145
```

The program should then display the value of each denomination and the total as shown in the sample output below. Note that the output should only contain the denomination/quantity tuples with non-zero quantities.

```
Denomination(RM)        Quantity        Value (RM)
          100               26              2600
           50               87              4350
           20               96              1920
            5               33               165
            1              145               145
Total = RM 9180
```