**CODE EXPLANATION**

**Class Name:** MinimumCoins

**Input:**

* Item, Price: Used HashMap and stored item in String which is the key and Price in integer which is the value.
* Paying: The total amount the customer will be paying.

**Output:**

* The list of items.
* The total amount to be paid.
* Change to be returned.
* Minimum number of coins.

Methods:

* customerItems: Displays the items and price given by the customer.
* totalPrice: Calculates the total price of items.
* Denominations: Gives the minimum number of coins to be returned.

**Logic:**

* To calculate the total amount, we add all the prices.
* To calculate the change to be returned we subtract the paying from the total amount and store it in ‘change’ variable.
* To calculate the minimum number of coins we start with the highest denomination and subtract it from the ‘change’ and we continue this process till the change is zero.

A screenshot of a computer

Description automatically generated

**TEST CASES**

1. **When the cost of item is negative.**

A screenshot of a computer

Description automatically generated

1. **When the paying amount is negative**

A screenshot of a computer program

Description automatically generated

1. **When the paying amount is less than total price.**

A white screen with black text

Description automatically generated