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| **Problem Statement Title** | Minimum Number of Notes Dispensed by ATM |
| **C programming Concept** | Control Flows\_Loops |
| **Additional Programming Concepts** | NA |

**Introduction:**

An ATM has the denomination of Rs.2000, Rs.500, Rs.200, Rs.100.

Write a function to find minimum No. of notes can be dispensed by the machine for the requested amount. Assuming sufficient currency and all denominations are available.

**Function Details:**

* **Function name:** CalculateMinNotes
* **Arguments/input:** Integer – representing the user-requested amount.
* **Return value/Output:** Integer - representing the minimum no of notes. If the input is invalid, the function returns “0”. Invalid inputs include cases where the amount is less than Rs 100, or not a multiple of 100, or Negative input/value.

**Example 1:**

* Input : 2000 (User’s amount)
* Expected Output: 1
* Explanation:
  + Here , User’s amount is 2000, So, the function correctly dispenses the requested amount (2000) with the minimum number of 1 note (Rs. 2000 note).

**Example 2:**

* Input : 1234 (User’s amount)
* Expected Output: 0
* Explanation:
  + The function detects that the input amount (1234) is not a multiple of 100, so it returns 0, indicating an invalid amount.

**Example 3:**

* Input : 4500 (User’s amount)
* Expected Output: 3
* Explanation: The Minimum notes distribution
  + 2 notes of Rs.2000 are 2x2000 = 4000.
  + 1 note of Rs.500 is 1x500 = 500.
  + i.e., 2x2000+1x500 = 4500.
  + Total Number of notes : 2 + 1 = 3
  + So, the function correctly dispenses the requested amount (4500) with the minimum number of 3 notes.