Line-by-Line Explanation of C# Coin Program

using System;

Imports the System namespace which provides basic functions like input/output.

class Program

Defines a class named Program. All code resides inside this class.

static void Coin(int amount)

Defines a static method named Coin which takes an integer amount as input.

int[] deno = { 500, 200, 100, 50, 20, 10, 5, 2, 1 };

Creates an array of available denominations (Indian currency), sorted from largest to smallest.

List<int> coinUsed = new List<int>();

Initializes a list to store the coins used during the calculation.

foreach (int coin in deno)

Iterates over each denomination one by one using a foreach loop.

while (amount >= coin)

Checks if the current coin can be used (i.e., if it is <= remaining amount).

amount -= coin;

Subtracts the coin value from the amount.

coinUsed.Add(coin);

Adds that coin to the coinUsed list.

Console.WriteLine("Coin Used: ");

Prints a heading to indicate the start of the output.

foreach (int coin in coinUsed) Console.WriteLine(coin + " ");

Prints all coins used, one per line.

Console.WriteLine($"\nTotal Coins: { coinUsed.Count}");

Prints the total number of coins used.

static void Main()

The entry point of the program. Execution starts here.

int amt = 880;

Declares and initializes the input amount.

Coin(amt);

Calls the Coin method with the given amount.

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