

Problem 5: Given a value V, if we want to make a change for V Rs, and we have an infinite supply of each of the denominations in Indian currency, i.e., we have an infinite supply of { 1, 2, 5, 10, 20, 50, 100, 500, 1000} valued coins/notes, what is the minimum number of coins and/or notes needed to make the change.

```
def find_minimum_coins(V):
```

```
    total = V
```

```
    count = 0
```

```
    denominations = [1000, 500, 100, 50, 20, 10, 5, 2, 1]
```

```
    for d in denominations:
```

```
        if total >= d:
```

```
            count += total // d
```

```
            total -= (total // d) * d
```

```
    return count
```

```
V = 70
```

```
minimum_coins = find_minimum_coins(V)
```

```
print(minimum_coins)
```

A screenshot of a terminal window with a dark background. The window title is "input". The output text is displayed in green: "...Program finished with exit code 0" followed by "Press ENTER to exit console." with a cursor. On the left margin, the number "2" is visible.

```
...Program finished with exit code 0
Press ENTER to exit console.
```