Idea:

A new payment bank wants to implement its banking solution. Payments banks have a maximum limit of ₹1,00,000 on the account balance. The balance cannot exceed this limit. The bank wants to put in some conditions for withdrawals and deposits to an account. Below are the conditions:

- Account balance cannot exceed ₹1,00,000
- Account balance cannot be less than ₹0
- The minimum deposit amount is ₹500 per transaction
- The maximum deposit amount is ₹50,000 per transaction
- The minimum withdrawal amount is ₹1,000 per transaction
- The maximum withdrawal amount is ₹25,000 per transaction
- No more than 3 deposits are allowed in a day
- No more than 3 withdrawals are allowed in a day
- Account number entered during deposit or withdrawal should be valid
- Account has sufficient balance during withdrawals

Problem statement

Given an input command and the necessary valid parameters, your solution should execute the command and return the output. Below are the commands that need to be supported along with description, input parameters and the expected output for each command.

Input commands

- Create Takes 1 parameter that is the full name of the holder. Creates a new account and returns the account number
- *Deposit* Takes 2 parameters as input. First is the account number and the second is the deposit amount. Returns the balance post deposit.
- Withdraw Takes 2 parameters as input. First is the account number and the second is the withdrawal amount. Returns the balance post withdrawal.
- Balance Takes 1 parameter that is the account number. Returns current balance. Transfer Takes 3 parameters. First is the source account number, second is the target account number and the last one is the amount to transfer. Returns status as successful or failure.
 - o All the deposit and withdrawal rules are applicable for transfer operation as well.

Sample input and output

Account creation

• Input: Create "Amit Dugal"

Output: 1001

• Input: Create "Gauri Kalla"

Output: 1002

Deposit

• Input: Deposit 1001 500

Output: 500

• Input: Deposit 1001 1000

Output: 1500

• Input: Deposit 1001 100

Output: Minimum deposit amount is 500

• Input: Deposit 1001 60000

Output: Maximum deposit amount is 50000

• Input: Deposit 1001 10000

Output: 11500

• Input: Deposit 1001 10000

Output: Only 3 deposits are allowed in a day

Balance

• Input: Balance 1001 Output: 11500

Withdrawal

• Input: Withdraw 1001 500

Output: Minimum withdrawal amount is 1000

Input: Withdraw 1001 20000
 Output: Insufficient balance

Input: Withdraw 1001 1000

Output: 10500

• Input: Withdraw 1001 1900

Output: 8600

• Input: Withdraw 1001 1000

Output: 7600

• Input: Withdraw 1001 5000

Output: Only 3 withdrawals are allowed in a day

Transfer

• Input: Transfer 1001 1002 5000

Output: Successful

• Input: Transfer 1002 1004 500

Output: Minimum withdrawal amount is 1000 for account 1002

• Input: Transfer 1002 1004 30000

Output: Maximum withdrawal amount is 30000 for account 1002