JAVA MINI PROJECT

TITLE: CHOPSTICKS GAME

TEAM MEMBERS:

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Problem Statement:

To create an application in Java as a basic version of game "Chopsticks" using the functions provided by the GCC.

- The game starts with each player having one finger in both hands.
- When player 1 touches pplayer2 hands the number of finger in player 2 hands gets added up with the number of fingers in player 1's hands.
- This can happen in 4 ways
 - 1. Left with Left
 - 2. Left with Right
 - 3. Right with Right
 - 4. Right with Left
- When the number of fingers in a hand becomes 5 the player loses that hand. When a player loses both hands the other player wins.
- There's an option called divide where you can divide the number of fingers in both hands in any order you wish. For example 3-3 can be split as 2-4 (left hand-right hand).

Modules Involved:

1. Initializing Names: To store the names of the players

Input: Names of two players

Output: The names of two players are initiated

2. **GetP1:** Gives the current status of the player 1 i.e., the number of fingers in each left and right hand.

Output: Return the current status of player 1

3. **GetP2:** Gives the current status of the player 1 i.e., the number of fingers in each left and right hand.

Output: Return the current status of player 2

4. **UpdateP1:** Updates player 1's hands with the new number of fingers.

Input: New number of fingers in both handsOutput: The number of fingers of player1 is updated

5. **UpdateP2:** Updates player 2's hands with the new number of fingers.

Input: New number of fingers in Player 2 handsOutput: The number of fingers of player1 is updated

6. **Divide**: Divides the number of fingers in the way that the player wants.

Input: New number of fingers in both handsOutput: The number of fingers is updated if conditions are satisfied

Features of Java Used:

- Packages
- Exception handling

Constructors

Design of the program:

When player 1 chooses option 2

When divide option is chosen

```
******* Thejas's hand ******
Left: 1 Right: 1

******* Vignesh's hand ******
Left: 3 Right: 0

touch
[1]left with left
[2]left with right
[3]right with left
[4]right with right
[5]divide
your choice:
```