3/29/24, 5:20 PM Main.java

Question 5 (Bonus)\Main.java

```
import java.util.Scanner;
2
3
   public class Main {
4
        public static void main(String[] args) {
5
            Scanner scanner = new Scanner(System.in);
6
7
            // Initialize player and house with initial money
8
            Player player = new Player(100);
9
            House house = new House(1000);
10
            // Create a BigSmallGame instance
11
12
            BigSmallGame bigSmallGame = new BigSmallGame(player.getMoney(), house.getMoney());
13
14
            System.out.println("The house has $" + house.getMoney());
            System.out.println("The player has $" + player.getMoney());
15
16
            System.out.println("Try your luck to win all the money of the house!");
17
18
            boolean continuePlaying = true;
19
            int round = 1;
20
21
            while (continuePlaying && player.getMoney() > 0 && house.getMoney() > 0) {
22
                System.out.println("\nRound " + round + ":");
23
24
                // Player places a bet
25
                int betAmount = player.placeBet(scanner);
26
27
                // Player chooses Big or Small
28
                String choice = player.chooseOption(scanner);
29
30
                // Play the round and check the outcome
31
                boolean win = bigSmallGame.playRound(betAmount, choice);
32
33
                // Update player and house money based on the outcome
34
                if (win) {
                    System.out.println("You won $" + betAmount + "!");
35
36
                    player.setMoney(player.getMoney() + betAmount);
37
                    house.setMoney(house.getMoney() - betAmount);
38
                } else {
39
                    System.out.println("You lost $" + betAmount + "!");
40
                    player.setMoney(player.getMoney() - betAmount);
41
                    house.setMoney(house.getMoney() + betAmount);
42
                }
43
                System.out.println("House has $" + house.getMoney());
44
                System.out.println("Player has $" + player.getMoney());
45
46
47
                // Ask if the player wants to continue playing
48
                System.out.println("Do you still want to continue to play? (true/false)");
49
                continuePlaying = scanner.nextBoolean();
50
                round++;
            }
51
52
            // Determine the final winner
53
54
            if (player.getMoney() <= 0) {</pre>
55
                System.out.println("Player ran out of money! House wins!");
56
            } else if (house.getMoney() <= 0) {</pre>
57
                System.out.println("House ran out of money! Player wins!");
```