

Question 5 (Bonus)\BigSmallGame.java

```
1 public class BigSmallGame {
2     public static final int MIN_BET_AMOUNT = 1;
3
4     private int playerMoney;
5     private int houseMoney;
6     private Dice dice;
7
8     public BigSmallGame(int playerMoney, int houseMoney) {
9         this.playerMoney = playerMoney;
10        this.houseMoney = houseMoney;
11        this.dice = new Dice();
12    }
13
14    public boolean playRound(int betAmount, String choice) {
15        if (betAmount < MIN_BET_AMOUNT || betAmount > playerMoney) {
16            System.out.println("Invalid bet amount! Please enter a valid bet amount.");
17            return false;
18        }
19
20        int dice1 = dice.roll();
21        int dice2 = dice.roll();
22        int dice3 = dice.roll();
23
24        int sum = dice1 + dice2 + dice3;
25        System.out.println("The dices are: " + dice1 + " " + dice2 + " " + dice3);
26        System.out.println("Sum of 3 dices is: " + sum);
27
28        boolean win = false;
29        if ((sum >= 4 && sum <= 10 && choice.equalsIgnoreCase("big")) ||
30            (sum >= 11 && sum <= 17 && choice.equalsIgnoreCase("small"))) {
31            win = true;
32        }
33
34        return win;
35    }
36
37    public int getPlayerMoney() {
38        return playerMoney;
39    }
40
41    public void setPlayerMoney(int playerMoney) {
42        this.playerMoney = playerMoney;
43    }
44
45    public int getHouseMoney() {
46        return houseMoney;
47    }
48
49    public void setHouseMoney(int houseMoney) {
50        this.houseMoney = houseMoney;
51    }
52 }
53
```