

RIDDLE GAME

SOURCE CODE:

```
import java.util.Scanner;

public class RiddleGame {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        int score = 0;

        String[] riddles = {

            "I speak without a mouth and hear without ears. I have no body, but I come alive with the wind. What am I?",

            "The more you take, the more you leave behind. What am I?",

            "I'm not alive, but I can grow; I don't have lungs, but I need air; I don't have a mouth, but water kills me. What am I?"

        };

        String[] answers = {

            "An echo",

            "Footsteps",

            "A fire"

        };

        String[] hints = {

            "Hint: This thing is known for its ability to reflect sound.",

            "Hint: Think about what you leave behind when you walk.",

            "Hint: It produces heat and light."

        };

        int numRiddles = riddles.length;

        while (true) {

            int randomIndex = (int) (Math.random() * numRiddles);

            String selectedRiddle = riddles[randomIndex];

            String correctAnswer = answers[randomIndex];

            String hint = hints[randomIndex];

            System.out.println("Riddle: " + selectedRiddle);

            String userAnswer = scanner.nextLine();

            if (userAnswer.equalsIgnoreCase(correctAnswer)) {

                System.out.println("Correct!");

                score++;

            } else {
```

```

        System.out.println("Wrong! Would you like a hint? (yes/no)");

        String giveHint = scanner.nextLine().toLowerCase();

        if (giveHint.equals("yes")) {

            System.out.println(hint);

        }

    }

    System.out.println("Continue playing? (yes/no)");

    String playAgain = scanner.nextLine().toLowerCase();

    if (!playAgain.equals("yes")) {

        break;

    }

}

System.out.println("Your final score: " + score);

System.out.println("Thanks for playing!");

}

}

```

OUTPUT

```

▲ java -cp /tmp/323g4Tz5i9/RiddleGame
Riddle: The more you take, the more you leave behind. What am I?
Footsteps
Correct!
Continue playing? (yes/no)
yes
Riddle: I speak without a mouth and hear without ears. I have no body, but I come alive with the wind.
    What am I?
A fire
Wrong! Would you like a hint? (yes/no)
yes
Hint: This thing is known for its ability to reflect sound.
Continue playing? (yes/no)
An echo
Your final score: 1
Thanks for playing!

=== Code Execution Successful ===

```