package com.Mohan.handman;

import java.util.Random;

import java.util.Scanner;

public class HangMan{

public static void main(String[] args) {

String[] words = {"java", "hangman", "programming", "computer",

"algorithm"};

Random random = new Random();

String selectedWord = words[random.nextInt(words.length)];

char[] displayWord = new char[selectedWord.length()];

for (int i = 0; i < displayWord.length; i++) {

displayWord[i] = '\_';

}

int incorrectGuesses = 0;

int maxIncorrectGuesses = 6; // Maximum incorrect guesses allowed

Scanner scanner = new Scanner(System.in);

System.out.println("Welcome to Hangman!");

while (incorrectGuesses < maxIncorrectGuesses) {

System.out.println("\nCurrent word: " + String.valueOf(displayWord));

System.out.print("Enter a letter: ");

char guess = scanner.next().toLowerCase().charAt(0);

boolean found = false;

for (int i = 0; i < selectedWord.length(); i++) {

if (selectedWord.charAt(i) == guess) {

displayWord[i] = guess;

found = true;

}

}

if (!found) {

incorrectGuesses++;

displayHangman(incorrectGuesses);

}

if (String.valueOf(displayWord).equals(selectedWord)) {

System.out.println("Congratulations! You guessed the word: " +

selectedWord);

break;

}

}

if (incorrectGuesses == maxIncorrectGuesses) {

System.out.println("Sorry, you ran out of attempts. The correct word was: " + selectedWord);

}

scanner.close();

}

private static void displayHangman(int incorrectGuesses) {

// Display a simple hangman figure based on the number of incorrect guesses

System.out.println("Incorrect guesses: " + incorrectGuesses);

switch (incorrectGuesses) {

case 1:

System.out.println(" +---+");

System.out.println(" | |");

System.out.println(" |");

System.out.println(" |");

System.out.println(" |");

System.out.println(" |");

break;

case 2:

System.out.println(" +---+");

System.out.println(" | |");

System.out.println(" O |");

System.out.println(" |");

System.out.println(" |");

System.out.println(" |");

break;

case 3:

System.out.println(" +---+");

System.out.println(" | |");

System.out.println(" O |");

System.out.println(" | |");

System.out.println(" |");

System.out.println(" |");

break;

case 4:

System.out.println(" +---+");

System.out.println(" | |");

System.out.println(" O |");

System.out.println(" /| |");

System.out.println(" |");

System.out.println(" |");

break;

case 5:

System.out.println(" +---+");

System.out.println(" | |");

System.out.println(" O |");

System.out.println(" /|\\ |");

System.out.println(" |");

System.out.println(" |");

break;

case 6:

System.out.println(" +---+");

System.out.println(" | |");

System.out.println(" O |");

System.out.println(" /|\\ |");

System.out.println(" / \\");

System.out.println(" |");

System.out.println("Game Over!");

break;

}

}

}