**Wordle**

**How to use**

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Wordle game is a game where the player tries to guess a word that is randomly selected from the Database.

Selection of words from the database:

|  |  |  |
| --- | --- | --- |
| apple  grape  ocean  sunny  table  music  happy  smart  mouse laugh  pizza  dream  cloud  sugar  snake  canyon  ridge  blaze | peace  heart  lucky  smile  water  beach  piano  tiger  bunny  zebra  honey  magic  fairy  queen  storm  space  brush  tidal  pearl | green  melon  light  flame  salsa  robot  angel  frost  earth  grace  shore  blaze  glaze  prism  azure  lunar  stone  swirl |

Program code:

#include <iostream>

#include <string>

#include <fstream>

#include <random>

std::string wordGeneration(std::string dataBase[]);

void wordGuess(std::string word, std::string playerWord);

void dateBaseTest();

int main()

{

int menu;

//dateBaseTest();

std::cout << "Hello Player! Glad to see you!\n";

std::string dataBase[50];

std::ifstream file("DataBase.txt");

if (!file.is\_open()) {

std::cerr << "Error opening file." << std::endl;

}

for (int i = 0; i < 50; i++) {

if (!(file >> dataBase[i])) {

break;

}

}

file.close();

do {

std::cout << "1 - Start\n2 - etc\n 0 - Exit\n";

std::cin >> menu;

std::string word = wordGeneration(dataBase);

wordGuess(word, "\*\*\*\*\*");

} while (menu != 0);

}std::string wordGeneration(std::string dataBase[]) {

std::random\_device rd;

std::mt19937 gen(rd());

std::uniform\_int\_distribution<> dis(0, 49);

int randomWordIndex = dis(gen);

return dataBase[randomWordIndex];

}void wordGuess(std::string word, std::string playerWord) {

std::string playerCurrentTry ;

int amountTries = 0;

do {

playerCurrentTry = "\*\*\*\*\*";

std::cout << "Guess the word:\n";

std::cin >> playerWord;

if (playerWord == "0") {

std::cout << "see you soon:)";

return ;

}

else {

for (int i = 0; i < 5; i++) {

for (int j = 0; j < 5; j++) {

if (std::tolower(playerWord[j]) == word[i]) {

playerCurrentTry[j] = word[i];

}

if (std::tolower(playerWord[j]) == word[j]) {

playerCurrentTry[j] = std::toupper(word[j]);

}

}

}

}

if (playerCurrentTry == word) {

std::cout << "Player win, player word: " << playerCurrentTry << ", computer word: " << word;

}

amountTries++;

std::cout << playerCurrentTry << "\n";

std::cout << "Tries amount: " << amountTries << "\n";

} while (playerWord != word);

Examples:

Зображення, що містить текст, електроніка, знімок екрана, програмне забезпечення

Автоматично згенерований опис

Зображення, що містить текст, знімок екрана, програмне забезпечення, Мультимедійне програмне забезпечення

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