// 19.10(string).cpp : Этот файл содержит функцию "main". Здесь начинается и заканчивается выполнение программы.

//

#include <iostream>

#include <string>

#include <fstream>

#include <vector>

int main()

{

setlocale(LC\_ALL, "Russian");

//task 1

/\*std::ifstream fin("text.txt");

std::ofstream fout("output.txt");

std::string str;

const std::string str1 = "char", str2 = "unsigned ";

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

std::cout << "Error file open";

return 1;

}

while (!fin.eof()) {

std::getline(fin, str);

int position = 0;

position = str.find(str1, position);

while (position != std::string::npos) {

str.insert(position, str2);

position += str1.length() + str2.length();

position = str.find(str1, position);

}

fout << str << "\n";

}

fin.close();

fout.close();\*/

//task 2

/\*

std::ifstream fin("English.txt");

std::ofstream fout("Engoutput.txt");

std::string str;

const std::string str1 = "we", str2 = "they";

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

std::cout << "Error file open";

return 1;

}

while (!fin.eof()) {

std::getline(fin, str);

int position = 0;

position = str.find(str1, position);

while (position != std::string::npos) {

str.replace(position, str1.length(), str2);

position += str2.length();

position = str.find(str1, position);

}

fout << str << "\n";

}

fin.close();

fout.close();

\*/

//task 3

/\*std::vector<std::string> vecString;

std::string str;

std::ifstream fin1("keywords.txt");

if (!fin1.is\_open()) {

std::cout << "Error file open";

return 1;

}

while (!fin1.eof()) {

std::getline(fin1, str);

vecString.push\_back(str);

//std::cout << str << " ";

}

std::vector<int> vecCounter(vecString.size());

fin1.close();

std::ifstream fin2("Text.txt");

std::ofstream fout("keywordsOutput.txt");

if (!fin2.is\_open()) {

std::cout << "Error file open";

return 1;

}

std::cout << "\n";

while (!fin2.eof()) {

fin2 >> str;

for (size\_t i = 0; i < vecString.size(); i++) {

if (vecString[i] == str) {

vecCounter[i]++;

}

//std::cout << vecCounter[i] << " ";

}

}

int min = 0;

int minIndex = 0;

for (size\_t i = 0; i < vecString.size(); i++)

{

if (vecCounter[i] != 0) {

fout << "\n" << vecString[i] << "\t" << vecCounter[i];

if (vecCounter[i] > min) {

min = vecCounter[i];

minIndex = i;

}

}

}

fout << "\nthe keyword that was found most times is : " << vecString[minIndex] << " - " << vecCounter[minIndex] << " times";

fin2.close();

fout.close();\*/

//task 4

std::cout << "Enter the amount: \n";

double number;

std::cin >> number;

std::string stringNumber = std::to\_string(number);

int delimeterPos = stringNumber.find(",", 0);

std::string strRub = stringNumber.substr(0, delimeterPos);

std::string strCoins = stringNumber.substr(delimeterPos + 1, stringNumber.length() - delimeterPos);

int rubels = std::stoi(strRub);

int coins = std::stoi(strCoins);

while (coins >= 100) coins /= 10;

//double coins = (number - rubels) \* 100;

//int intCoins = static\_cast<int>(coins);

//std::cout << rubels << " " << coins;

//std::string strRub = std::to\_string(rubels);

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

if (i % 3 == 0 && i >= 3) std::cout << " ";

std::cout << strRub[i];

}

if (rubels <= 0) {

std::cout << "Error. Negative amount";

}

else if ((rubels % 10 >= 5) || (rubels % 10 == 0) || (rubels >= 5) && (rubels <= 20)) {

std::cout << " рублей";

}

else if (rubels % 10 == 1) {

std::cout << " рубль";

}

else if (rubels % 10 >= 2 && rubels % 10 <= 4) {

std::cout << " рубля";

}

else if (rubels % 10 == 1) {

std::cout << "рубль";

}

std::cout << " " << coins;

if ((coins >= 5) && (coins <= 20) || (coins == 0) || ((coins % 10 >= 5) && (coins % 10 <= 20))) {

std::cout << " копеек";

}

else if (coins % 10 == 1) {

std::cout << " копейка";

}

else if (coins % 10 >= 2 && coins % 10 <= 4) {

std::cout << " копейки";

}

}