#include<iostream>

#include<string>

#include<iomanip>

#include<cstdlib>

#include<ctime>

using namespace std;

int main()

{

string name;

char character;

int number;

int number1, x, y, x1, y1;

// int only for numbers

//string that allow me to put word

//char to add any characters

cout << "Please enter your name:" << "\n";

cin >> name;

cout << "Please Enter a character to personalize the look of the menu: \n";

cin >> character;

while (true)

{

cout << character << setw(52) << setfill(character) << "\n";

//endl to finish the line

//cin to make the user able to add information to the program

cout << character << " Welcome, " << name << "!" << " " << character << "\n";

cout << character << "Please choose a number from the following options:" << character << "\n" << character;

cout << "1. Play the game! " << character << "\n"

<< character << "2. Demo the game! " << character << "\n"

<< character << "3. Exit " << character << "\n" << character;

cout << character << setw(51) << setfill(character) << "\n";

cin >> number;

cout << "You have chosen a " << number << endl;

////////////////////////////////////////////////////////////////////////////////////////////

// if the user chose number 1, he will start playing the game.

if (number == 1)

{

cout << setw(10) << setfill(' ') << "WELCOME TO MATH TRICKS," << name << "!" << endl;

cout << "I am a mind reader......" << endl;

cout << "We will choose 5 five digit numbers together" << endl;

cout << "but I will be able to give you the sum" << endl;

cout << "of all five after only hearing the first one!!" << endl << "\n";

cout << "What is your first five digit number?" << " ";

cin >> number1;

cout << "The sum of all five numbers is: \*\*\*\*\*\*\*\*" << number1 + 199998 << "\*\*\*\*\*\*\*" << endl;

cout << "What is your Second five digit number?" << " ";

cin >> x;

x1 = 99999 - x;

cout << "I'am choosing:" << setw(40) << setfill(' ') << x1 << endl;

cout << "What is your third five digit number?" << " ";

cin >> y;

y1 = 99999 - y;

cout << "I'am choosing:" << setw(40) << setfill(' ') << y1 << endl;

// i added all the numbers in the end to make sure that my answer is right

cout << "CHECK MY ANSWER THAT I GAVE !!! AM I CORRECT?? " << " " << number1 + x + x1 + y + y1 << endl;

}

//////////////////////////////////////////////////////////////////////////

// The Demogame

if (number == 2)

{

srand(time(0)); //seeds the random number generator

int secret; //secret number random

int guess;

int i = 0; //loop variable

bool gotit = false; // guessed right

//set up loop for three times

cout << "welcome to the guessing game! \n";

while (i < 3 && !gotit)// three times

{

secret = rand() % 9;

cout << "enter guess #" << i + 1 << ":";

cin >> guess;

if (guess == secret)

{

cout << "great, you got it in" << i + 1 << "tries.\n";

gotit = true;

}

else

if (i < 2)

cout << "sorry, try again\n";

else

cout << "sorry.......\n";

i++; //increment

}

}

///////////////////////////////////////////////////////////////////////////////////

// if the user chose Exit which is number 3, the program will return 0

if (number == 3)

{

return 0;

}

}

}