**#include <iostream>**

**using namespace std;**

**// Task 1**

**// 1. İstifadəçi kq daxil edir, Kilogramı Gallona çevirən proqram yazın.**

**// (Bir gallonun neçə kilogram olduğunu internetdən araşdırın)**

**//void main()**

**//{**

**// cout << "\n The program that converts the kilogram into gallon. " << endl;**

**// cout << "------------------------------------------------------" << endl;**

**//**

**// const float kilogramWithGallon = 0.264172053;**

**//**

**// float enteredKilogram = 0;**

**// cout << "\n Enter kilogram = ";**

**// cin >> enteredKilogram;**

**//**

**// float gallon = 0;**

**// gallon = enteredKilogram \* kilogramWithGallon;**

**// cout << "\n "<< enteredKilogram << " kilograms is " << gallon << " gallons." << endl;**

**//}**

**// Task 2**

**// 2. İstifadəçi konsertin biletinin qiymətini və konsertə gedəcək böyüklərin və uşaqların(ayrı - ayrı)**

**// sayını daxil edir.Ümumi xərclənəcək məbləği ekrana çıxarın. (Uşaqlara bilet 40faiz ucuzdur)**

**//void main()**

**//{**

**// cout << "\n The program that finds overall payment for adults and children." << endl;**

**// cout << "-----------------------------------------------------------------" << endl;**

**//**

**// int adults = 0;**

**// cout << "\n Enter the number of adults = ";**

**// cin >> adults;**

**//**

**// int children = 0;**

**// cout << " Enter the number of the children = ";**

**// cin >> children;**

**//**

**// float priceofticket = 0;**

**// cout << "\n Enter the price of the ticket = ";**

**// cin >> priceofticket;**

**//**

**// float paymentadults = 0;**

**// paymentadults = adults \* priceofticket;**

**//**

**// float paymentchildren = 0;**

**// paymentchildren = children \* (priceofticket \* 0.6);**

**//**

**// float totalPayment = 0;**

**// totalPayment = paymentadults + paymentchildren;**

**// if (totalPayment == (int)totalPayment)**

**// {**

**// cout << "\n The total payment is " << totalPayment << " dollars." << endl;**

**// }**

**// else**

**// {**

**// cout << "\n The total payment is " << (int)totalPayment << " dollars " << (int)(100\*(totalPayment - (int)totalPayment)) << " cents." << endl;**

**// }**

**//**

**//}**

**//Task 3**

**//3. İstifadəçi banka qoyacağı pulu və İLLİK üzərinə gəlinəcək faizi daxil edir.**

**//Ekrana faizdən AYLIQ gələcək gəliri hesablayan proqram yazın.**

**//(Məsələn, 1000 manat və 10 faizdirsə, bir il sonra 1100 manat olacaq)**

**//void main()**

**//{**

**// cout << "\n The user enters the money to be deposited in the bank and the interest to be charged on the ANNUAL." << endl;**

**// cout << " The program calculates the MONTHLY future income from interest and displays on the screen." << endl;**

**// cout << "-------------------------------------------------------------------------------------------------------" << endl;**

**//**

**// float money = 0;**

**// cout << "\n Enter money to be deposited = ";**

**// cin >> money;**

**//**

**// float interest = 0;**

**// cout << " Enter the interest to be charged on the ANNUAL = ";**

**// cin >> interest;**

**//**

**// float monthlyIncome = 0;**

**// monthlyIncome = ((money \* interest) / 100) / 12;**

**// if (monthlyIncome == (int)monthlyIncome)**

**// {**

**// cout << "\n The monthly income is " << monthlyIncome << " dollars." << endl;**

**// }**

**// else**

**// {**

**// cout << "\n The monthly income is " << (int)monthlyIncome << " dollars " << (int)(100\*(monthlyIncome - (int)monthlyIncome)) << " cents." << endl;**

**// }**

**//**

**//}**

**// Task 4**

**// 4. İstifadəçi klaviaturadan məsafəni, hər 100 km - ə benzin sərfiyyatını və üç növ benzinin qiymətini daxil edir.**

**// Benzinin müxtəlif növləri üçün gedişin müqayisəli qiymətlər cədvəlini ekrana çıxarın. (A - 92, A - 95, Premium)**

**//void main()**

**//{**

**// cout << "\n The user enters the distance, fuel consumption per 100 km and the price of three types of gasoline. " << endl;**

**// cout << " Display a comparison chart of travel rates for different types of gasoline." << endl;**

**// cout << "------------------------------------------------------------------------------------------------------" << endl;**

**//**

**// float distance = 0;**

**// cout << "\n Enter the distance = ";**

**// cin >> distance;**

**//**

**// float priceAI92 = 0;**

**// cout << "\n Enter the price of AI92 = ";**

**// cin >> priceAI92;**

**//**

**// float consumptionAI92per100km = 0;**

**// cout << " Enter fuel consumption per 100 km for AI92 = ";**

**// cin >> consumptionAI92per100km;**

**//**

**// float priceAI95 = 0;**

**// cout << "\n Enter the price of AI95 = ";**

**// cin >> priceAI95;**

**//**

**// float consumptionAI95per100km = 0;**

**// cout << " Enter fuel consumption per 100 km for AI95 = ";**

**// cin >> consumptionAI95per100km;**

**//**

**// float priceDisel = 0;**

**// cout << "\n Enter the price of Disel = ";**

**// cin >> priceDisel;**

**//**

**// float consumptionDiselper100km = 0;**

**// cout << " Enter fuel consumption per 100 km for Disel = ";**

**// cin >> consumptionDiselper100km;**

**//**

**// float priceAI92ForXDistance = 0;**

**// priceAI92ForXDistance = ((distance \* consumptionAI92per100km) / 100) \* priceAI92;**

**// if (priceAI92ForXDistance == (int)priceAI92ForXDistance)**

**// {**

**// cout << "\n For a distance " << distance << " km, price of AI92 will be " << priceAI92ForXDistance << " dollars" << endl;**

**// }**

**// else**

**// {**

**// cout << "\n For a distance " << distance << " km, price of AI92 will be " << (int)priceAI92ForXDistance << " dollars " << (int)(100\*(priceAI92ForXDistance - (int)priceAI92ForXDistance)) << " cents." << endl;**

**// }**

**//**

**// float priceAI95ForXDistance = 0;**

**// priceAI95ForXDistance = ((distance \* consumptionAI95per100km) / 100) \* priceAI95;**

**// if (priceAI95ForXDistance == (int)priceAI95ForXDistance)**

**// {**

**// cout << "\n For a distance " << distance << " km, price of AI95 will be " << priceAI95ForXDistance << " dollars" << endl;**

**// }**

**// else**

**// {**

**// cout << "\n For a distance " << distance << " km, price of AI95 will be " << (int)priceAI95ForXDistance << " dollars " << (int)(100 \* (priceAI95ForXDistance - (int)priceAI95ForXDistance)) << " cents." << endl;**

**// }**

**//**

**// float priceDiselForXDistance = 0;**

**// priceDiselForXDistance = ((distance \* consumptionDiselper100km) / 100) \* priceDisel;**

**// if (priceDiselForXDistance == (int)priceDiselForXDistance)**

**// {**

**// cout << "\n For a distance " << distance << " km, price of Disel will be " << priceDiselForXDistance << " dollars" << endl;**

**// }**

**// else**

**// {**

**// cout << "\n For a distance " << distance << " km, price of Disel will be " << (int)priceDiselForXDistance << " dollars " << (int)(100 \* (priceDiselForXDistance - (int)priceDiselForXDistance)) << " cents." << endl;**

**// }**

**//}**

**//Task 5**

**//5. Otağın eni, uzunluğu, hündürlüyü daxil edilir.Ekrana bu otağın divarlarını boyamaq üçün nə qədər**

**//rəng gedəcəyini hesablayan proqram yazmaq lazımdır. 1 m2 divar üçün 0.5 litr rəng gedir və**

**//divarların 20faizi pəncərə və qapıdır.**

**//void main()**

**//{**

**// cout << "\n The width, length, height of the room are entered.\n 0.5 liters of paint goes for 1m^2 wall, and 20% of the walls are windows and doors." << endl;**

**// cout << " The program calculates how many liters of color it will take to paint the walls of this room." << endl;**

**// cout << "--------------------------------------------------------------------------------------" << endl;**

**//**

**// const double litersFor1m = 0.5;**

**//**

**// float width = 0;**

**// cout << "\n Enter the width of the room = ";**

**// cin >> width;**

**//**

**// float length = 0;**

**// cout << " Enter the length of the room = ";**

**// cin >> length;**

**//**

**// float height = 0;**

**// cout << " Enter the height of the room = ";**

**// cin >> height;**

**//**

**// float surfaceOfRoom = 0;**

**// surfaceOfRoom = (length \* width \* height)\*0.8;**

**//**

**// float litersForSurfaceOfRoom = 0;**

**// litersForSurfaceOfRoom = surfaceOfRoom \* litersFor1m;**

**// if (litersForSurfaceOfRoom == (int)litersForSurfaceOfRoom)**

**// {**

**// cout << "\n You will need " << litersForSurfaceOfRoom << " liters of color for the room." << endl;**

**// }**

**// else**

**// {**

**// cout << "\n You will need " << (int)litersForSurfaceOfRoom << " liters " << (int)(100 \* (litersForSurfaceOfRoom - (int)litersForSurfaceOfRoom)) << " milliliters of color for the room." << endl;**

**// }**

**//}**

**// Task 6**

**// 6. İstifadəçi üçrəqəmli ədəd daxil edir. Bu ədədin hər bir rəqəmini**

**// ayrı ayrı ekrana çıxarın. (məsələn. 315. Ekrana 3,1,5)**

**//void main()**

**//{**

**// cout << "\n User enters 3-digit number." << endl;**

**// cout << " The program shows all digits of number.";**

**// cout << "\n----------------------------------------" << endl;**

**//**

**// int number = 0;**

**// cout << "\n Enter 3-digit number = ";**

**// cin >> number;**

**//**

**// int firstDigit = 0;**

**// firstDigit = number / 100;**

**// cout << "\n First digit of the number = " << firstDigit << endl;**

**//**

**// int secondDigit = 0;**

**// secondDigit = (number / 10)%10;**

**// cout << " Second digit of the number = " << secondDigit << endl;**

**//**

**// int thirdDigit = 0;**

**// thirdDigit = number % 10;**

**// cout << " Third digit of the number = " << thirdDigit << endl;**

**//**

**//}**

**// Task 7**

**// 7. Ekrana 3 rəqəmli ədəd daxil edilir.**

**// Onu tərsinə çevirin. (məsələn. 357 daxil edili, ekrana 753 çıxarmaq lazımdır)**

**//void main()**

**//{**

**// cout << "\n 3-digit number is entered. ";**

**// cout << "\n The program reverse the number.";**

**// cout << "\n -----------------------------------" << endl;**

**//**

**// int number = 0;**

**// cout << "\n Enter 3-digit number = ";**

**// cin >> number;**

**//**

**// int firstDigit = 0;**

**// firstDigit = number / 100;**

**//**

**// int secondDigit = 0;**

**// secondDigit = (number / 10) % 10;**

**//**

**// int thirdDigit = 0;**

**// thirdDigit = number % 10;**

**//**

**// cout << "\n Here is the reversed form of the number = " << thirdDigit << secondDigit << firstDigit << endl;**

**//**

**//}**

**// Task 8**

**// İstifadəçi 4 rəqəmli ədəd daxil edir.**

**// Bu ədədin 1 və 3-cü rəqəmlərinin cəmini, 2 və 4-cü rəqəmlərinin**

**// fərqini tapıb ekrana çıxaran proqram yazın.**

**//void main()**

**//{**

**// cout << "\n User enter 4-digit number." << endl;**

**// cout << " The program finds the sum of first and third digit \n and the product of second and fourth digit." << endl;**

**// cout << " ------------------------------------------------------";**

**//**

**// int number = 0;**

**// cout << "\n\n Enter the 4-digit number = ";**

**// cin >> number;**

**//**

**// int firstDigit = 0;**

**// firstDigit = number / 1000;**

**//**

**// int secondDigit = 0;**

**// secondDigit = (number / 100) % 10;**

**//**

**// int thirdDigit = 0;**

**// thirdDigit = (number /10) % 10;**

**//**

**// int fourthDigit = 0;**

**// fourthDigit = number % 10;**

**//**

**// int sum13 = 0;**

**// sum13 = firstDigit + thirdDigit;**

**//**

**// int product24;**

**// product24 = secondDigit \* fourthDigit;**

**//**

**// cout << "\n The sum of " << firstDigit << " and " << thirdDigit << " is " << sum13 << "." << endl;**

**//**

**// cout << " The produt of " << secondDigit << " and " << fourthDigit << " is " << product24 << "." << endl;**

**//**

**//}**