#include <iostream>

#include <bits/stdc++.h>

using namespace std;

int main(){

cout << "Tinh tien dien nha Phuc" << endl;

double kWhTong, kWhMaylanh;

cout << "Nhap so kWh dien tong" << endl;

cin >> kWhTong;

cout << "Nhap so kWh may lanh" << endl;

cin >> kWhMaylanh;

double kWhThuong = kWhTong - kWhMaylanh;

double giaTienCacMuc[6] ={1.678,1.735,2.015,2.536,2.834,2.927};

double dienTieuDungTheoMuc[6]={0,0,0,0,0,0};

double dienTieuDungMayLanh[6]={0,0,0,0,0,0};

int mucDien = 0;

for(int i = 0; i < 6; i++){

int max;

if(i <=1) max = 50;

else if(i <= 4) max = 100;

else max = 9999;

if(kWhThuong> max){

dienTieuDungTheoMuc[i] = max;

kWhThuong -= dienTieuDungTheoMuc[i];

}else{

dienTieuDungTheoMuc[i] = kWhThuong;

kWhThuong = 0;

mucDien = i;

break;

}

}

for(int i = mucDien; i <6;i++ ){

int max;

if(i <=2) max = 50;

else if(i <= 5) max = 100;

else max = 9999;

if(i == 5){

dienTieuDungMayLanh[i] = kWhMaylanh;break;

}

if(kWhMaylanh> max){

dienTieuDungMayLanh[i] = max - dienTieuDungTheoMuc[i];

kWhMaylanh -= dienTieuDungMayLanh[i];

}else{

dienTieuDungMayLanh[i] = kWhMaylanh;

kWhMaylanh = 0;

mucDien = i;

break;

}

}

double tienDienThuong = 0, tienDienMayLanh = 0;

for(int i = 0; i < 6; i++){

tienDienThuong += dienTieuDungTheoMuc[i] \* giaTienCacMuc[i];

tienDienMayLanh += dienTieuDungMayLanh[i] \* giaTienCacMuc[i];

}

cout << "----------------------------------------" << endl;

cout << "Luong dien theo cac muc tien" << endl;

cout << " thuong may lanh gia tien cac muc" << endl;

for(int i = 0; i < 6; i++){

cout << "muc" << i+1 << ": "<< setw(8)<< dienTieuDungTheoMuc[i] << " " << dienTieuDungMayLanh[i] <<" "<< giaTienCacMuc[i]<< endl;

}

cout << "----------------------------------------" << endl;

cout << "tien dien thuong(thue 8%): " << tienDienThuong\*1.08 << endl;

cout << "tien dien may lanh(thue 8%): " << tienDienMayLanh\*1.08 << endl;

system ("pause");

}