//program to calculate and display the electricity bill for a given customer based on the units consumed

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//preprocessor directive scanf(),printf()

#include <stdio.h>

int main(){

int CustomerID,CustomerName,UnitConsumed;

float ChargesPerUnit,totalbill,TotalAmounttoPay;

//prompth the user to input values

printf("Input Customer Name:");

scanf("%d",&CustomerID);

printf("Input Customer Name:");

scanf("%d",&CustomerName);

printf("Input Unit Consumed:");

scanf("%d",&UnitConsumed);

//calculate charges per unit based on units consumed

if(UnitConsumed<=199){

ChargesPerUnit=1.20;//Ksh 1.22 per unit

}else if(UnitConsumed<=400){

ChargesPerUnit=1.50;//Ksh 1.50 per unit

}else if(ChargesPerUnit<=600){

ChargesPerUnit=1.80;//Ksh 1.80 per unit

}else{

ChargesPerUnit=2.00;//Ksh 2.00 per unit

}

//calculate total bill

totalbill=UnitConsumed\*ChargesPerUnit;

if(totalbill>=400){

totalbill=totalbill\*15/100;//capture totalbill

}

//calculate the total amount to pay

TotalAmounttoPay=totalbill;

//display the results

printf("customer id:%d\n",CustomerID);

printf("customer name:%d\n",CustomerName);

printf("unit consumed:%d\n",UnitConsumed);

printf("charges per unit:%.2f\n",ChargesPerUnit);

printf("total amount to pay:%.2f\n",TotalAmounttoPay);

printf("total bill:%.2f\n",totalbill);

return 0;

}