***CODE FOR ELECTRICITY CALCULATOR***

**#include<stdio.h>**

**#include<string.h>**

**#include<conio.h>**

**#include<stdlib.h>**

**int slab();**

**int non\_slab();**

**int agriculture();**

**int others();**

**struct electricity**

**{**

**int unit;**

**float amt;**

**int num;**

**float sur\_charge;**

**float total\_amt;**

**};**

**int main()**

**{**

**struct electricity e;**

**do{**

**printf("====================================================================\n");**

**printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WELCOME TO ELCTRICITY BOARD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("====================================================================\n\n");**

**printf("\t\t\t 1 . SLAB \n"); //HERE SLAB REPRESENTS HOUSES**

**printf("\t\t\t 2 . NON SLAB \n");// HERE NON SLAB REPRESENTS THE SHOPS AND COMMERCIAL BUIDINGS**

**printf("\t\t\t 3 . AGRICULTURE\n");// HERE AGRICULTURE REPRESENTS FARMING**

**printf("\t\t\t 4 . OTHERS\n ");//HERE OTHERS REPRESENTS THE PEOPLE WHO ARE UNDER THE BELOW POVERTY LINE(BPL)**

**printf("\t\t\t 5 . EXIT\n\n");// TERMINATES THE PROGRAM**

**printf("PLEASE ENTER YOUR CHOICE :: ");**

**scanf("%d",&e.num);**

**switch(e.num)**

**{**

**case 1:**

**slab();**

**break;**

**case 2:**

**non\_slab();**

**break;**

**case 3:**

**agriculture();**

**break;**

**case 4:**

**others();**

**break;**

**case 5:**

**exit(0);**

**default:**

**printf("OOPS SOMETHING YOU CHOSEN IS NOT UNDER OUR SERVICES ");**

**}**

**}while(e.num!=5);**

**}**

**int slab()**

**{**

**/\*IN THE BELOW PROGRAM WE CAN UNDERSTAND THAT FROM 0 UNITS TO 50 UNITS THERE WILL BE**

**AN CERTAIN AMOUNT FOR EXAMPLE : THERE IS AN 2RS WE CAN CALCULATE FIRST 50 UNITS BY MULTIPLYING**

**IT INTO NO.OF UNITS\*2 AND FOR THE 51 UNITS TO 150 UNITS WE HAVE TO CALCULATE THE FIRST 50 UNITS**

**HAVE TO ADD AND SUBTRACT NO OF UNITS-FIRST 50 UNITS AND MULTIPLY WITH AMOUNT OF THIS REMAINING**

**100 UNITS**

**0 UNITS TO 50 UNITS :: NO.OF UNITS\*2;**

**51 UNITS TO 150 UNITS :: 100+((NO.OF UNITS-FIRST 0 TO 50 UNITS)\*3);**

**LIKE ABOVE CALCULATION THE PROCESS WILL BE GO UPTO GRETER THAN 250 UNITS**

**\*/**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\t|||||||||||||||||||WELCOME TO ELECTRICITY BOARD DEPARTMENT|||||||||||||||||||\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t============ELECTRICITY BOARD RATE CHART (RATES PER UNIT)====================\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t0 Unit to 50 Units ...........................................=Rs.2.0/Unit\n\n");**

**printf("\t\t\t51 Unit to 150 Units .......................................... =Rs.3/Unit\n\n");**

**printf("\t\t\t151 Unit to 250 Units ......................................... =Rs.4/Unit\n\n");**

**printf("\t\t\tGREATER THAN 250 Units ......................................... =Rs.4.50/Unit\n\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");;**

**struct electricity e;**

**printf("\t\t\tENTER THE NUMBER OF UNITS CONSUMED :: ");**

**scanf("%d",&e.unit);**

**if(e.unit <= 50)**

**{**

**e.amt = e.unit \* 2;**

**}**

**else if(e.unit <= 150)**

**{**

**e.amt = 100 + ((e.unit-50) \* 3);**

**}**

**else if(e.unit <= 250)**

**{**

**e.amt = 400 + ((e.unit-150) \* 4);**

**}**

**else**

**{**

**e.amt = 800 + ((e.unit-250) \* 4.50);**

**}**

**e.sur\_charge = e.amt \* 0.20;**

**e.total\_amt = e.amt + e.sur\_charge;**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\tTHE PAYABLE AMOUNT OF THE GIVEN ELECTRICITY BILL :: %f\n",e.total\_amt);**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**return 0;**

**}**

**int non\_slab()**

**{**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\t|||||||||||||||||||WELCOME TO ELECTRICITY BOARD DEPARTMENT|||||||||||||||||||\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t============ELECTRICITY BOARD RATE CHART (RATES PER UNIT)====================\n\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t0 Unit to 50 Units ...........................................=Rs.5.0/Unit\n\n");**

**printf("\t\t\t51 Unit to 150 Units .......................................... =Rs.6/Unit\n\n");**

**printf("\t\t\t151 Unit to 250 Units ......................................... =Rs.7/Unit\n\n");**

**printf("\t\t\tGREATER THAN 250 Units ......................................... =Rs.10/Unit\n\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");;**

**struct electricity e;**

**printf("\t\t\tENTER THE NUMBER OF UNITS CONSUMED :: ");**

**scanf("%d",&e.unit);**

**if(e.unit <= 50)**

**{**

**e.amt = e.unit \* 5;**

**}**

**else if(e.unit <= 150)**

**{**

**e.amt = 250 + ((e.unit-50) \* 6);**

**}**

**else if(e.unit <= 250)**

**{**

**e.amt = 850 + ((e.unit-150) \* 7);**

**}**

**else**

**{**

**e.amt = 1550 + ((e.unit-250) \* 10);**

**}**

**e.sur\_charge = e.amt \* 0.20;**

**e.total\_amt = e.amt + e.sur\_charge;**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\tTHE PAYABLE AMOUNT OF THE GIVEN ELECTRICITY BILL :: %f\n",e.total\_amt);**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**return 0;**

**}**

**int agriculture()**

**{**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\t|||||||||||||||||||WELCOME TO ELECTRICITY BOARD DEPARTMENT|||||||||||||||||||\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t============ELECTRICITY BOARD RATE CHART (RATES PER UNIT)====================\n\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t0 Unit to 50 Units ...........................................=Rs.1.0/Unit\n\n");**

**printf("\t\t\t51 Unit to 150 Units .......................................... =Rs.2/Unit\n\n");**

**printf("\t\t\t151 Unit to 250 Units ......................................... =Rs.3/Unit\n\n");**

**printf("\t\t\tGREATER THAN 250 Units ......................................... =Rs.3.50/Unit\n\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");;**

**struct electricity e;**

**printf("\t\t\tENTER THE NUMBER OF UNITS CONSUMED :: ");**

**scanf("%d",&e.unit);**

**if(e.unit <= 50)**

**{**

**e.amt = e.unit \* 1;**

**}**

**else if(e.unit <= 150)**

**{**

**e.amt = 50 + ((e.unit-50) \* 2);**

**}**

**else if(e.unit <= 250)**

**{**

**e.amt = 250 + ((e.unit-150) \* 3);**

**}**

**else**

**{**

**e.amt = 550 + ((e.unit-250) \* 3.50);**

**}**

**e.sur\_charge = e.amt \* 0.20;**

**e.total\_amt = e.amt + e.sur\_charge;**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\tTHE PAYABLE AMOUNT OF THE GIVEN ELECTRICITY BILL :: %f\n",e.total\_amt);**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**return 0;**

**}**

**int others()**

**{**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\t|||||||||||||||||||WELCOME TO ELECTRICITY BOARD DEPARTMENT|||||||||||||||||||\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t============ELECTRICITY BOARD RATE CHART (RATES PER UNIT)====================\n\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");**

**printf("\t\t\t0 Unit to 50 Units ...........................................=Rs.0.75/Unit\n\n");**

**printf("\t\t\t51 Unit to 150 Units .......................................... =Rs.1/Unit\n\n");**

**printf("\t\t\t151 Unit to 250 Units ......................................... =Rs.1.50/Unit\n\n");**

**printf("\t\t\tGREATER THAN 250 Units ......................................... =Rs.2/Unit\n\n");**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");;**

**struct electricity e;**

**printf("\t\t\tENTER THE NUMBER OF UNITS CONSUMED :: ");**

**scanf("%d",&e.unit);**

**if(e.unit <= 50)**

**{**

**e.amt = e.unit \* 0.75;**

**}**

**else if(e.unit <= 150)**

**{**

**e.amt = 37.5 + ((e.unit-50) \* 1);**

**}**

**else if(e.unit <= 250)**

**{**

**e.amt = 137.5 + ((e.unit-150) \* 1.50);**

**}**

**else**

**{**

**e.amt = 287.5 + ((e.unit-250) \* 2);**

**}**

**e.sur\_charge = e.amt \* 0.20;**

**e.total\_amt = e.amt + e.sur\_charge;**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**printf("\t\t\tTHE PAYABLE AMOUNT OF THE GIVEN ELECTRICITY BILL :: %f\n",e.total\_amt);**

**printf("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**return 0;**

**}**

***INPUT AND OUTPUT***









