

Electricity bill generation:

SLAB SYSTEM

UNITS	UNIT PRICE
1-50	1.45
51-100	2.8
101-200	3.05
201-300	4.75
301-500	6.00
>500	6.25

$$30 \text{ UNITS} = 30 * 1.45 = 43.5$$

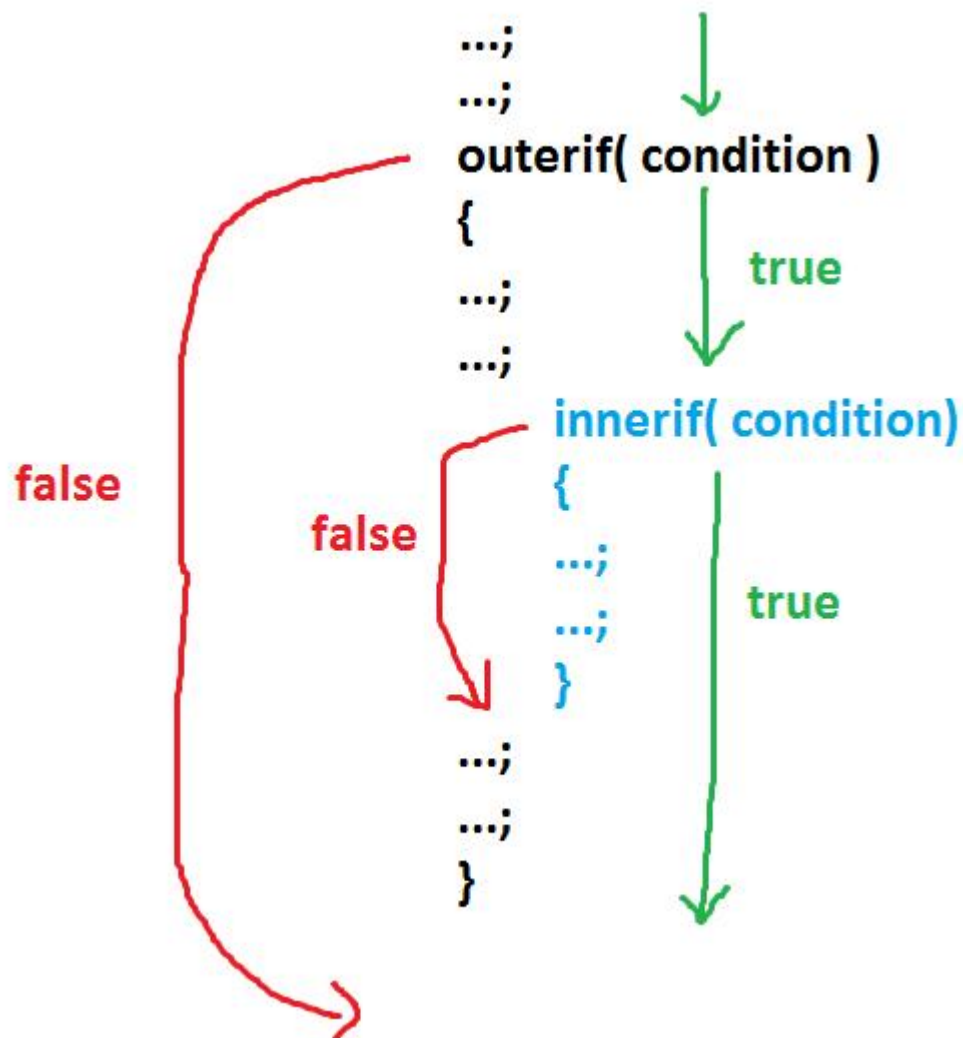
$$80 = 50 * 1.45 + (80 - 50) * 2.8 = 156.5$$

$$180 = 50 * 1.45 + 50 * 2.8 + 80 * 3.05 = 456.5$$

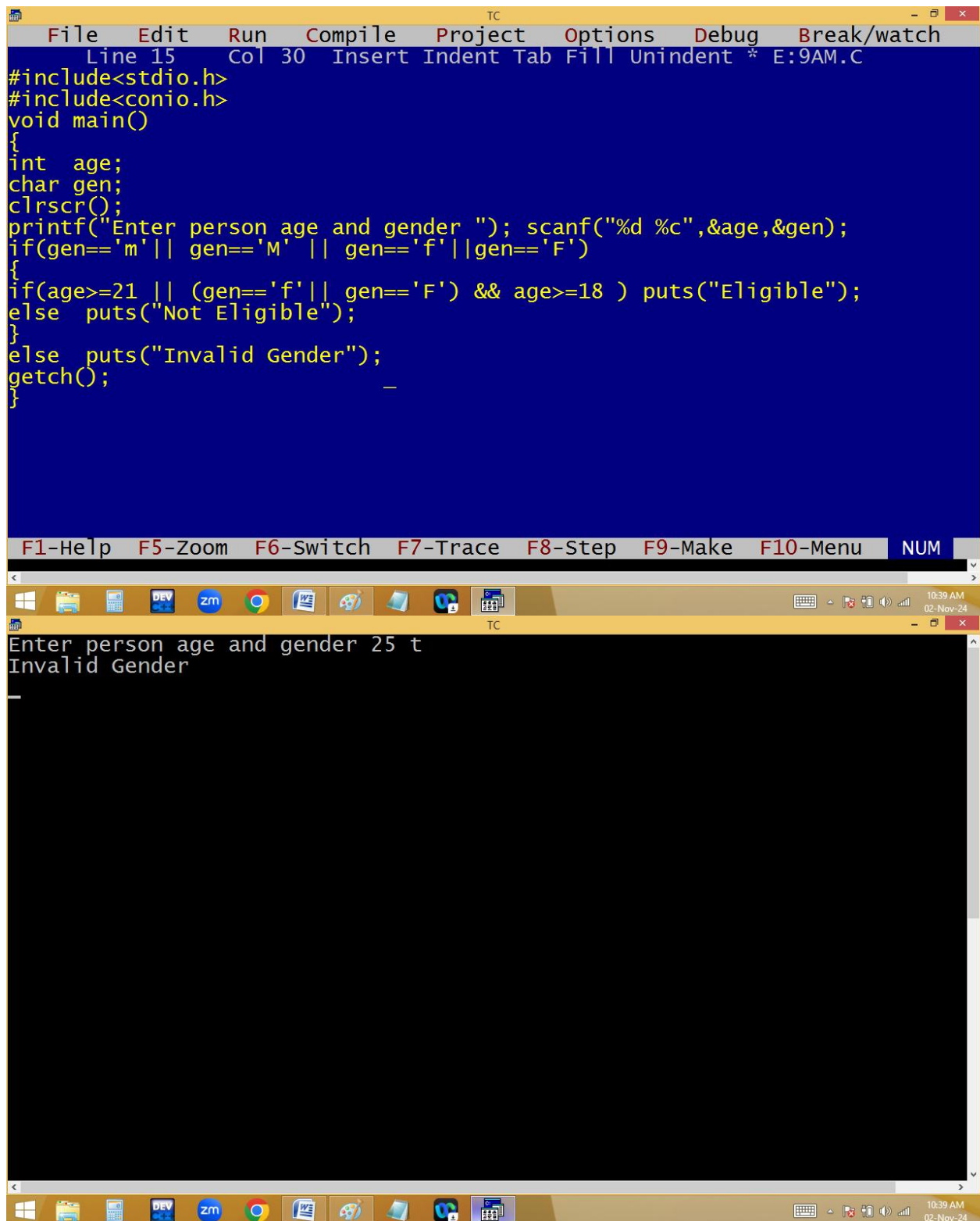
$$580 = 50 * 1.45 + 50 * 2.8 + 100 * 3.05 + 100 * 4.75 + 200 * 6 + 80 * 6.25 = 2692.5$$

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 4 Col 44 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h> #include<conio.h>
void main()
{
long serno,pre,cur,units; char name[20]; float amt;
clrscr();
printf("Enter serial no "); scanf("%ld",&serno);
printf("Enter consumer name "); scanf("%s",name);
printf("Enter previous month reading "); scanf("%ld",&pre);
current:
printf("Enter current month reading "); scanf("%ld",&cur);
if(cur<pre){puts("\aCheck current month reading"); goto current; }
units = cur - pre;
if(units<=50)amt=units*1.45;
else if(units<=100) amt=50*1.45+(units-50)*2.8;
else if(units<=200) amt=50*1.45+50*2.8+(units-100)*3.05;
else if(units<=300) amt=50*1.45+50*2.8+100*3.05+(units-200)*4.75;
else if(units<=500) amt=50*1.45+50*2.8+100*3.05+100*4.75+(units-300)*6;
else amt=50*1.45+50*2.8+100*3.05+100*4.75+200*6+(units-500)*6.25;
if(amt<50) amt=50;
printf("Amount=%.2f",amt);
getch();
}
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM
Enter serial no 3
Enter consumer name Nishi
Enter previous month reading 1000
Enter current month reading 1000
Amount=50.00_
TC
10:08 AM
02-Nov-24
```

Nested if: If within another if is called nested if.



Read a person age and gender and determine that person is eligible for marriage or not?



```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 15 Col 30 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int age;
char gen;
clrscr();
printf("Enter person age and gender "); scanf("%d %c",&age,&gen);
if(gen=='m' || gen=='M' || gen=='f' || gen=='F')
{
if(age>=21 || (gen=='f' || gen=='F') && age>=18 ) puts("Eligible");
else puts("Not Eligible");
}
else puts("Invalid Gender");
getch();
}
```

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM

Enter person age and gender 25 t
Invalid Gender

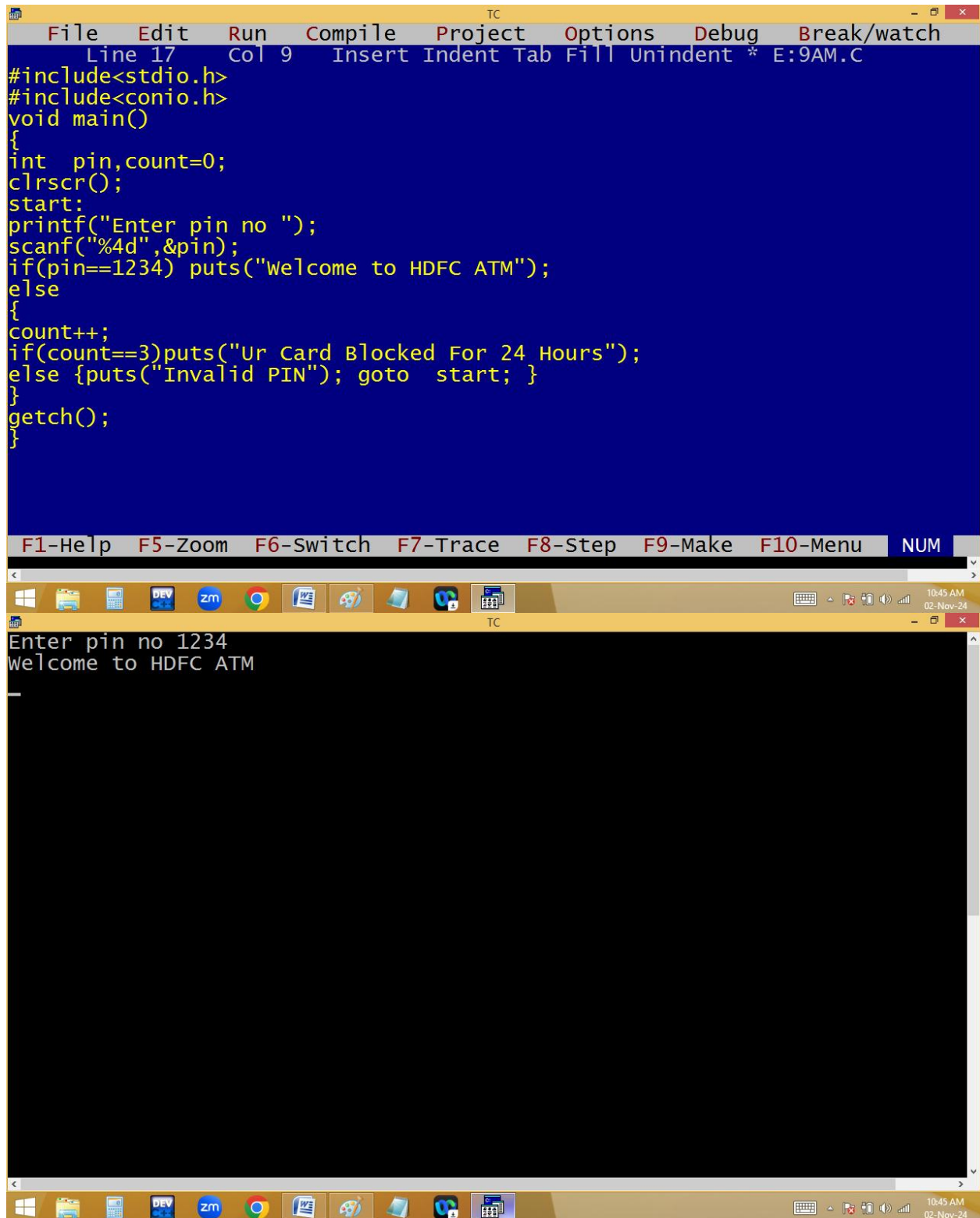
```
TC
Enter person age and gender 22 m
Eligible
```

```
TC
Enter person age and gender 20 f
Eligible
```

```
TC
Enter person age and gender 20 m
Not Eligible
```

```
TC
Enter person age and gender 17 f
Not Eligible
```

ATM PIN validation:



```
File Edit Run Compile Project Options Debug Break/watch
Line 17 Col 9 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int pin,count=0;
clrscr();
start:
printf("Enter pin no ");
scanf("%4d",&pin);
if(pin==1234) puts("Welcome to HDFC ATM");
else
{
count++;
if(count==3)puts("Ur Card Blocked For 24 Hours");
else {puts("Invalid PIN"); goto start; }
}
getch();
}
```

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM

Enter pin no 1234
Welcome to HDFC ATM

```
TC
Enter pin no 1111
Invalid PIN
Enter pin no 2222
Invalid PIN
Enter pin no 3333
Ur Card Blocked For 24 Hours
```

```
TC
Enter pin no 123456
Welcome to HDFC ATM
```