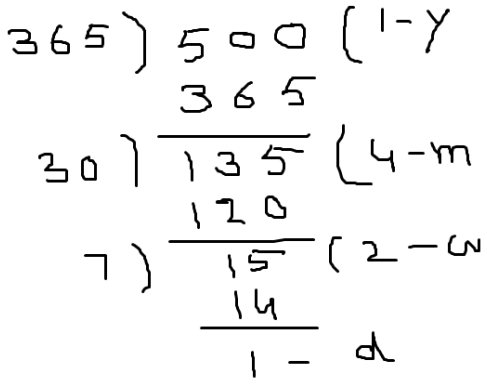
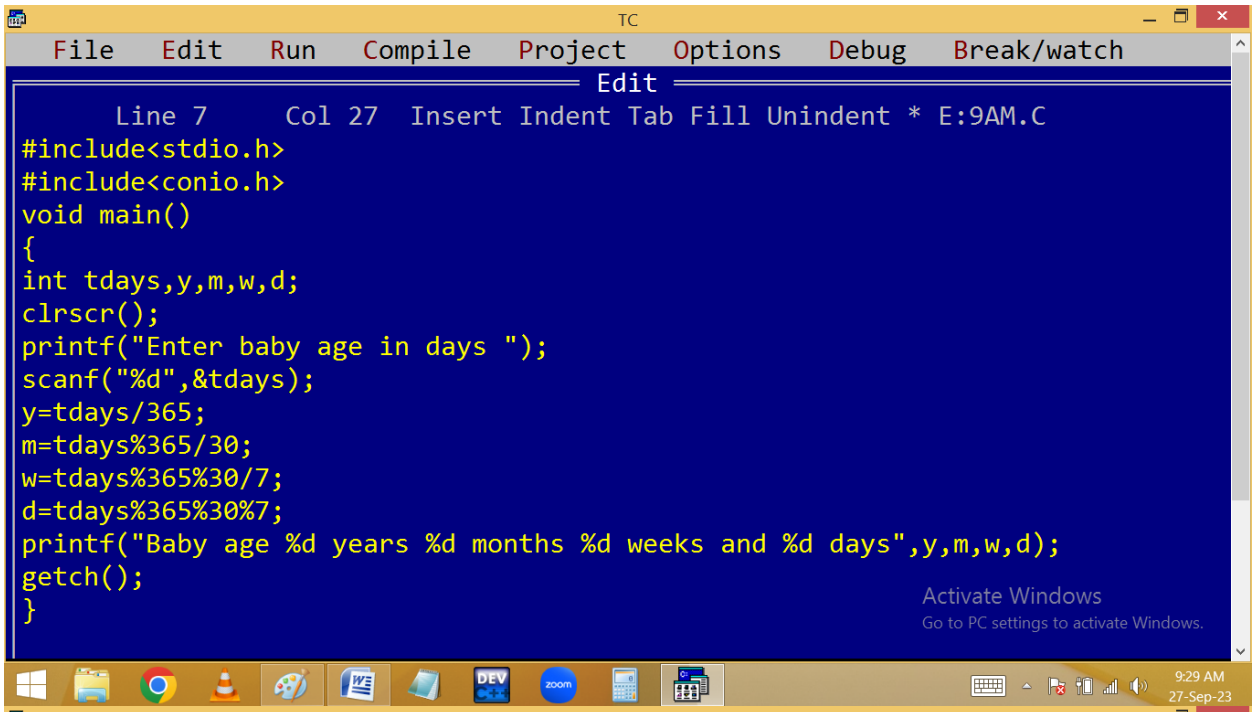
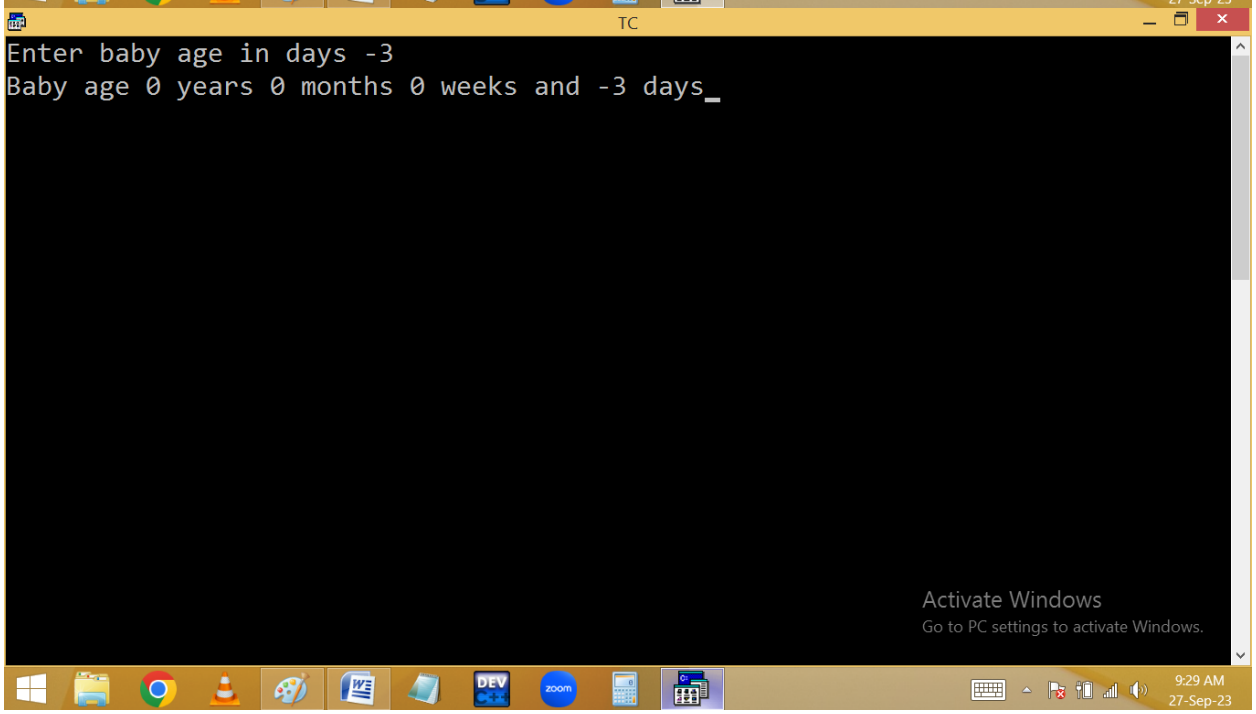
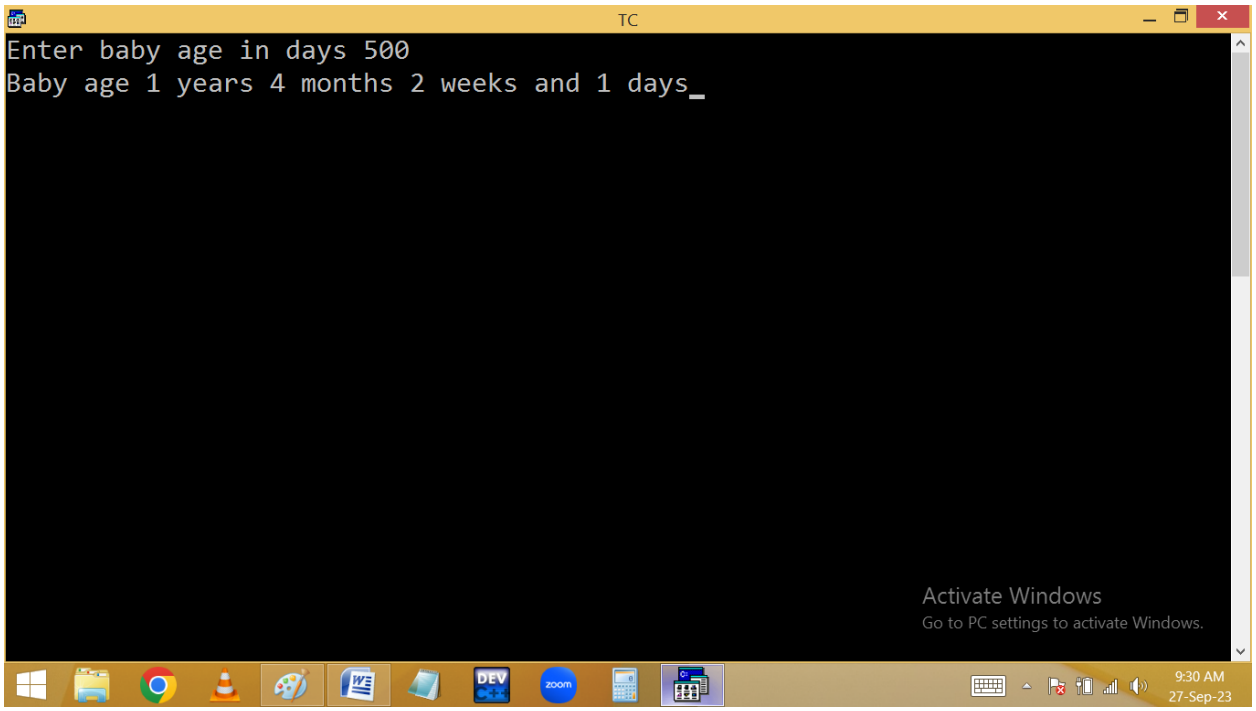
Read a baby age in no of days and find the baby age in years, months, weeks and days.

y = 500/365=1
m = 500%365=135/30=4
w = 500%365=135%30=15/7=2
d = 500%365=135%30=15%7=1




TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 7 Col 27 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int tdays,y,m,w,d;
clrscr();
printf("Enter baby age in days ");
scanf("%d",&tdays);
y=tdays/365;
m=tdays%365/30;
w=tdays%365%30/7;
d=tdays%365%30%7;
printf("Baby age %d years %d months %d weeks and %d days",y,m,w,d);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
9:29 AM
27-Sep-23

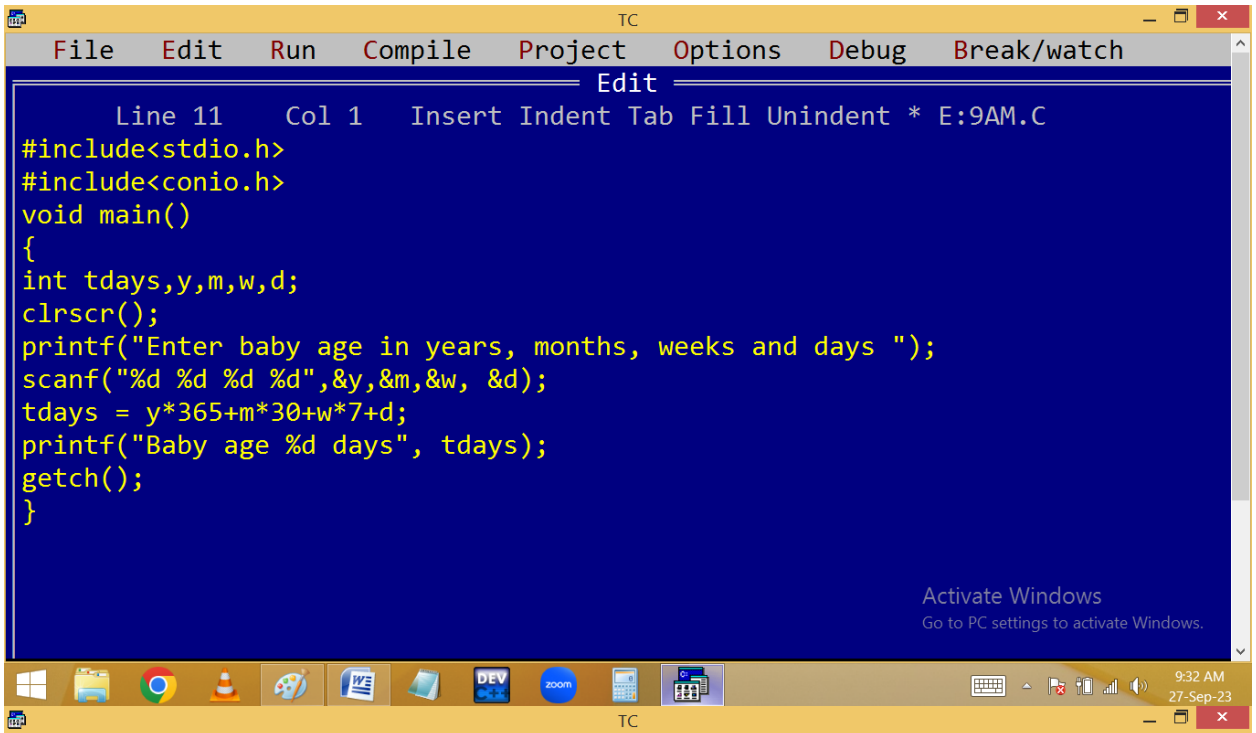

TC
Enter baby age in days -3
Baby age 0 years 0 months 0 weeks and -3 days
Activate Windows
Go to PC settings to activate Windows.
9:29 AM
27-Sep-23

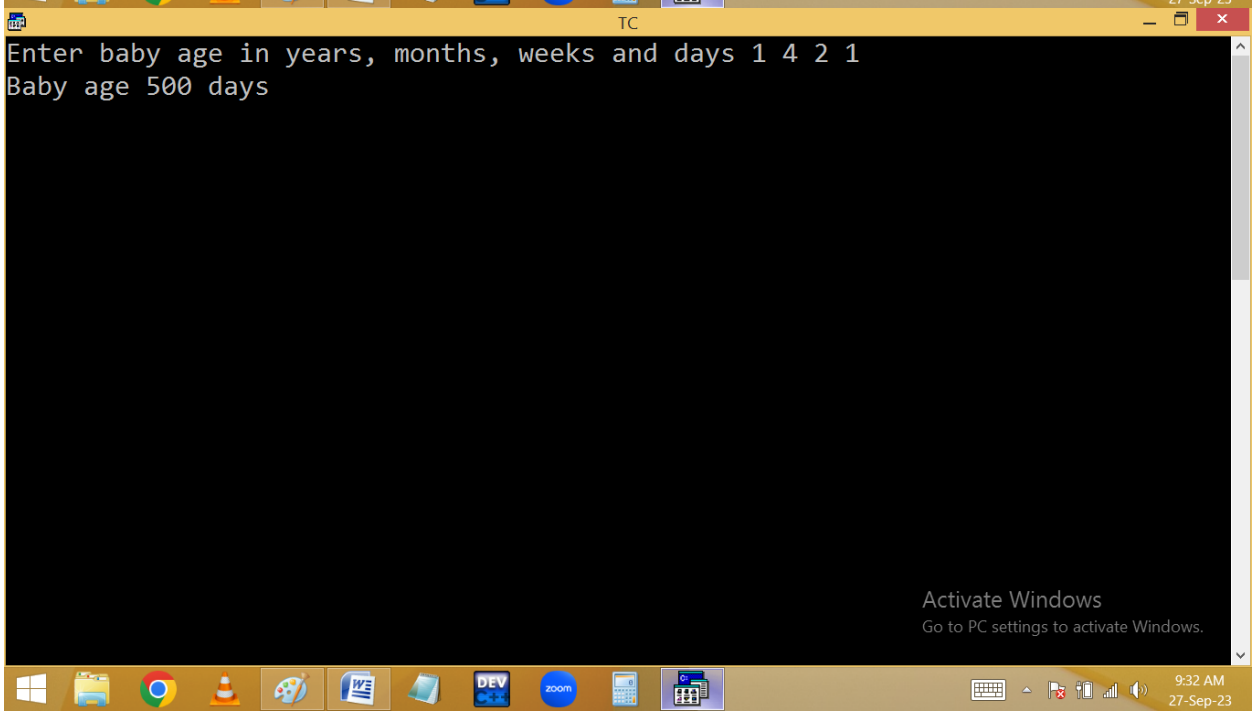


Read a baby age in years, months, weeks and days. Find the baby age in total days.

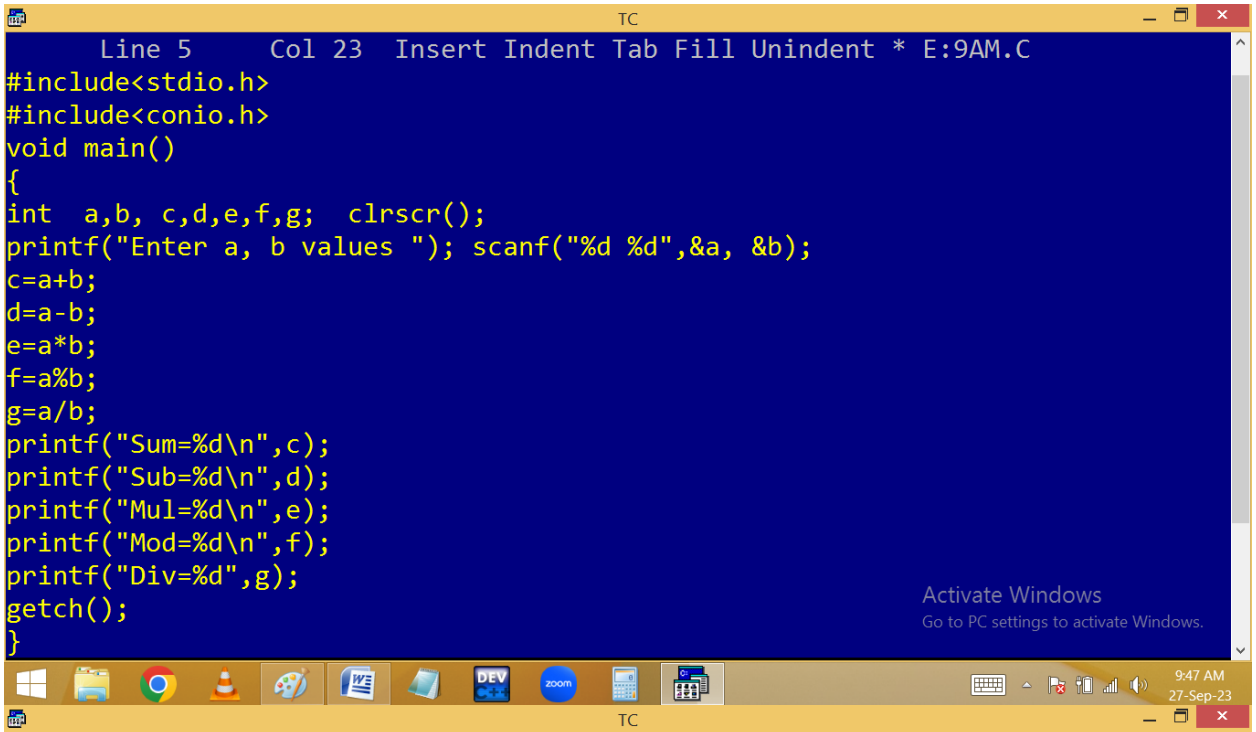
1 y + 4 m + 2 w + 1 day

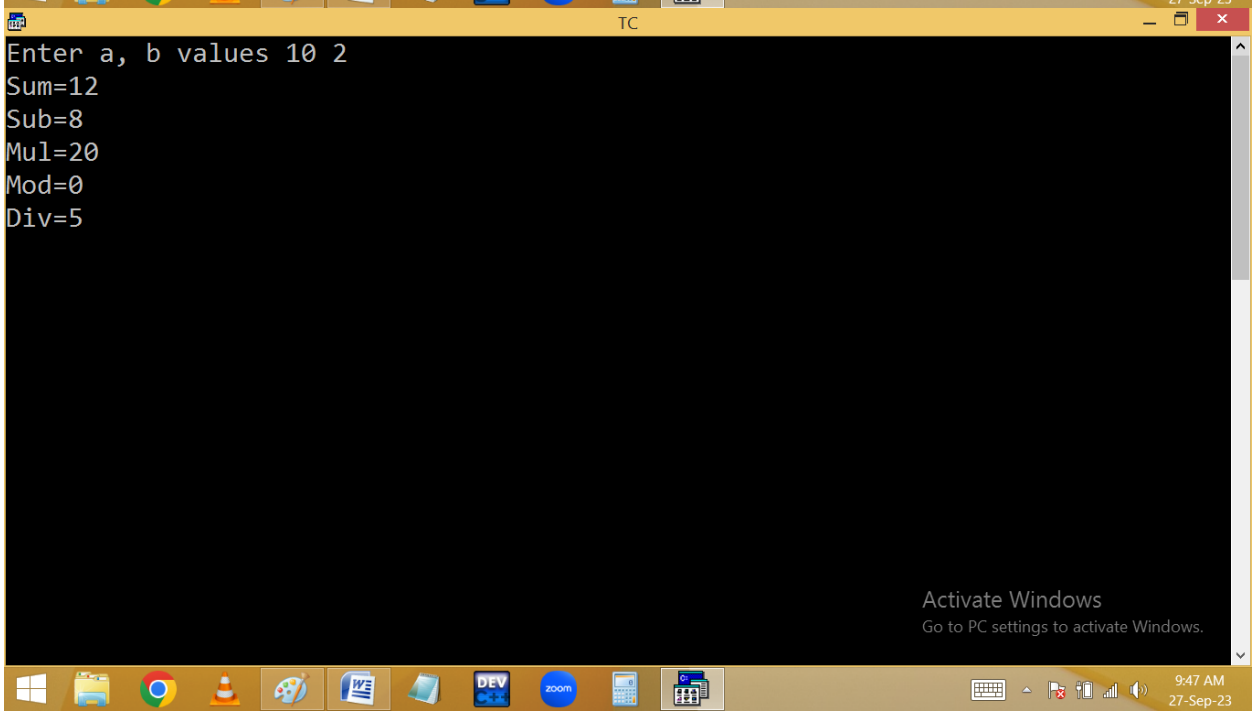
1*365 + 4*30 + 2*7 + 1 = 500 days

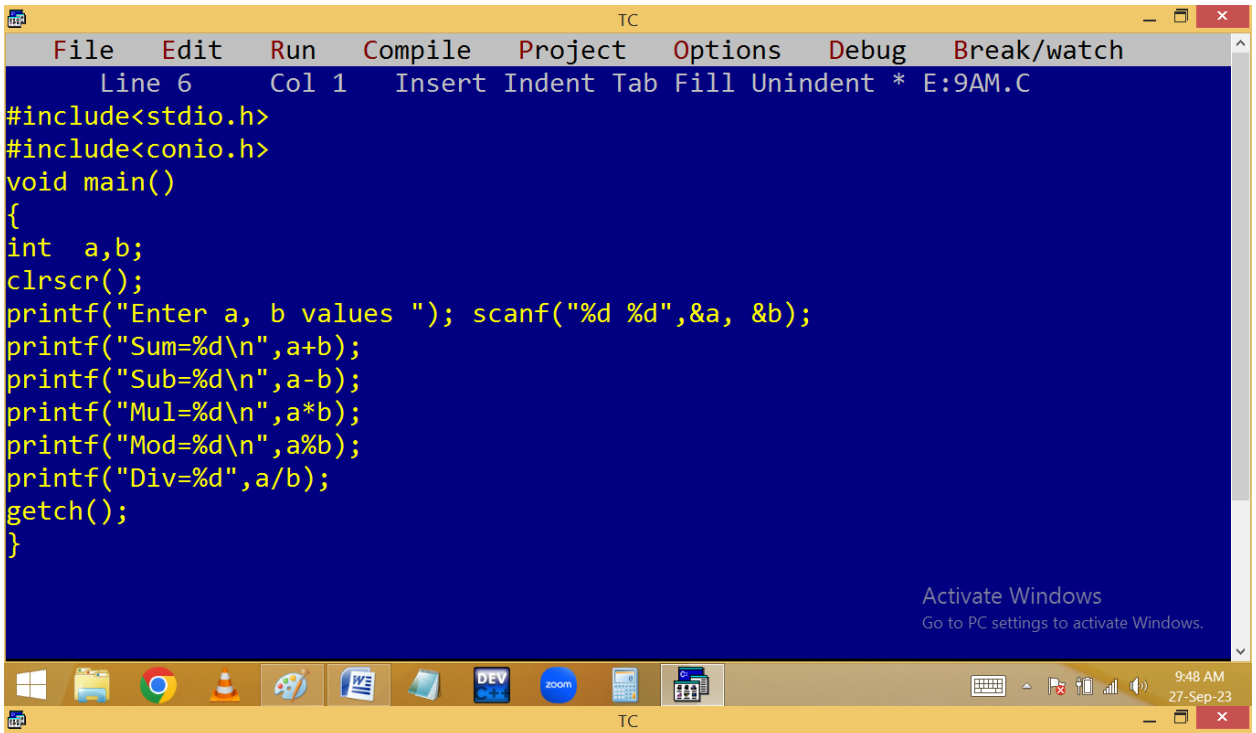

TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 11 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int tdays,y,m,w,d;
clrscr();
printf("Enter baby age in years, months, weeks and days ");
scanf("%d %d %d %d",&y,&m,&w, &d);
tdays = y*365+m*30+w*7+d;
printf("Baby age %d days", tdays);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
9:32 AM
27-Sep-23

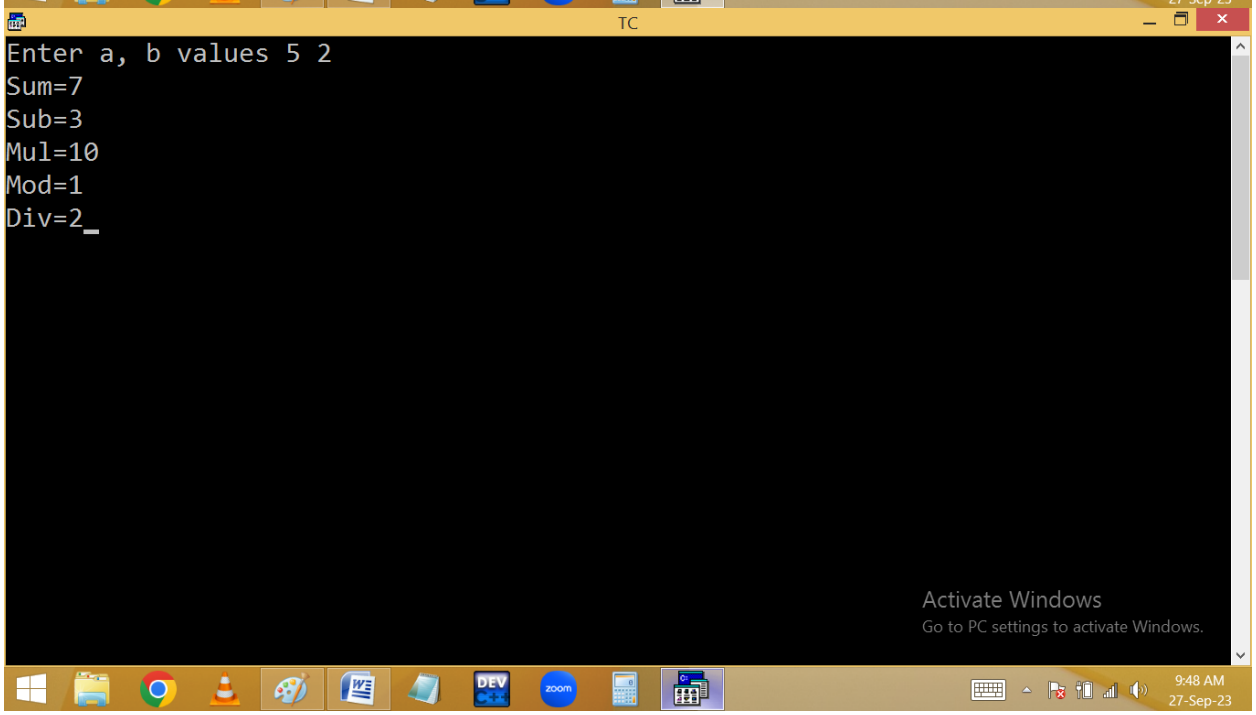

TC
Enter baby age in years, months, weeks and days 1 4 2 1
Baby age 500 days
Activate Windows
Go to PC settings to activate Windows.
9:32 AM
27-Sep-23

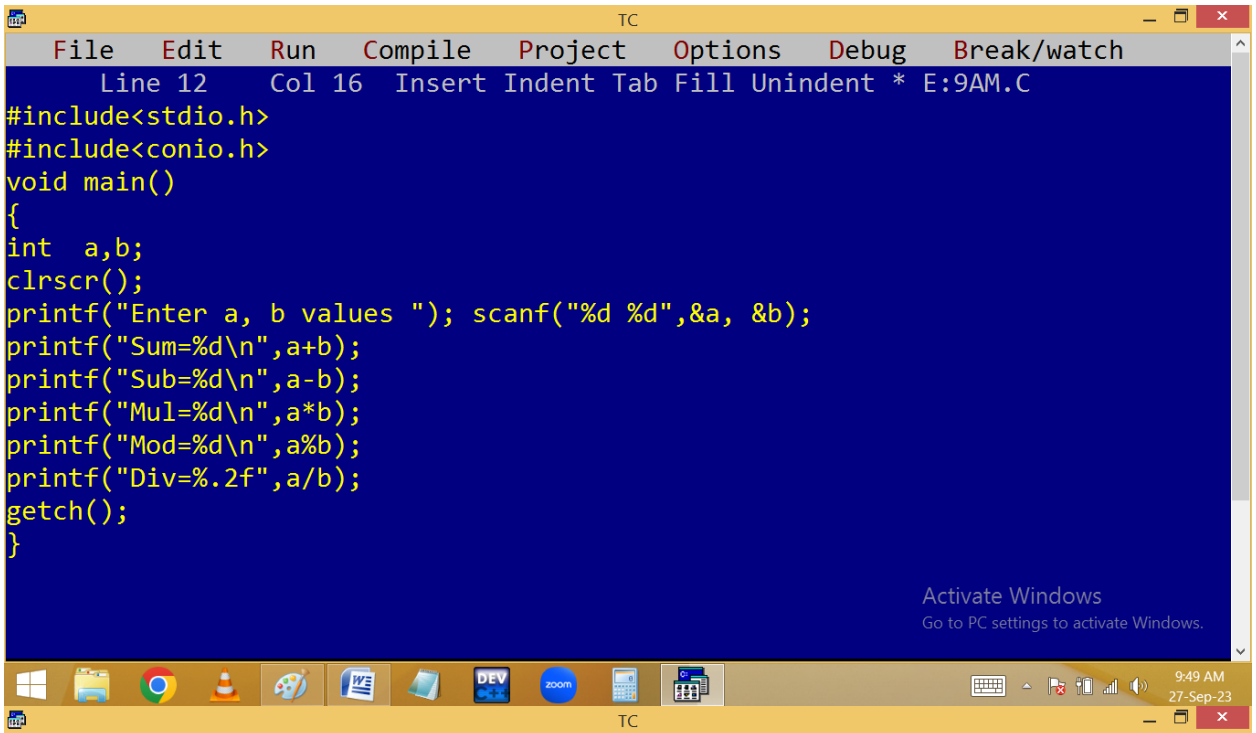
Read two numbers and perform all the arithmetic operations [+,-, *, %, /].

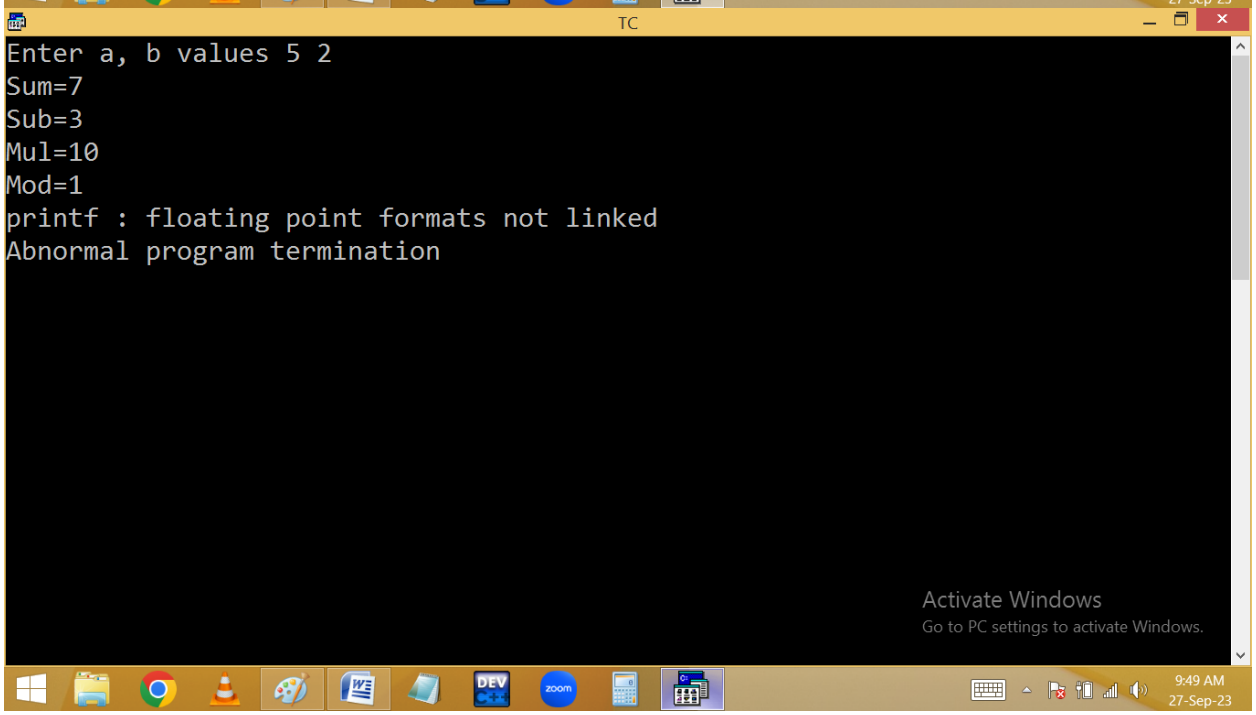


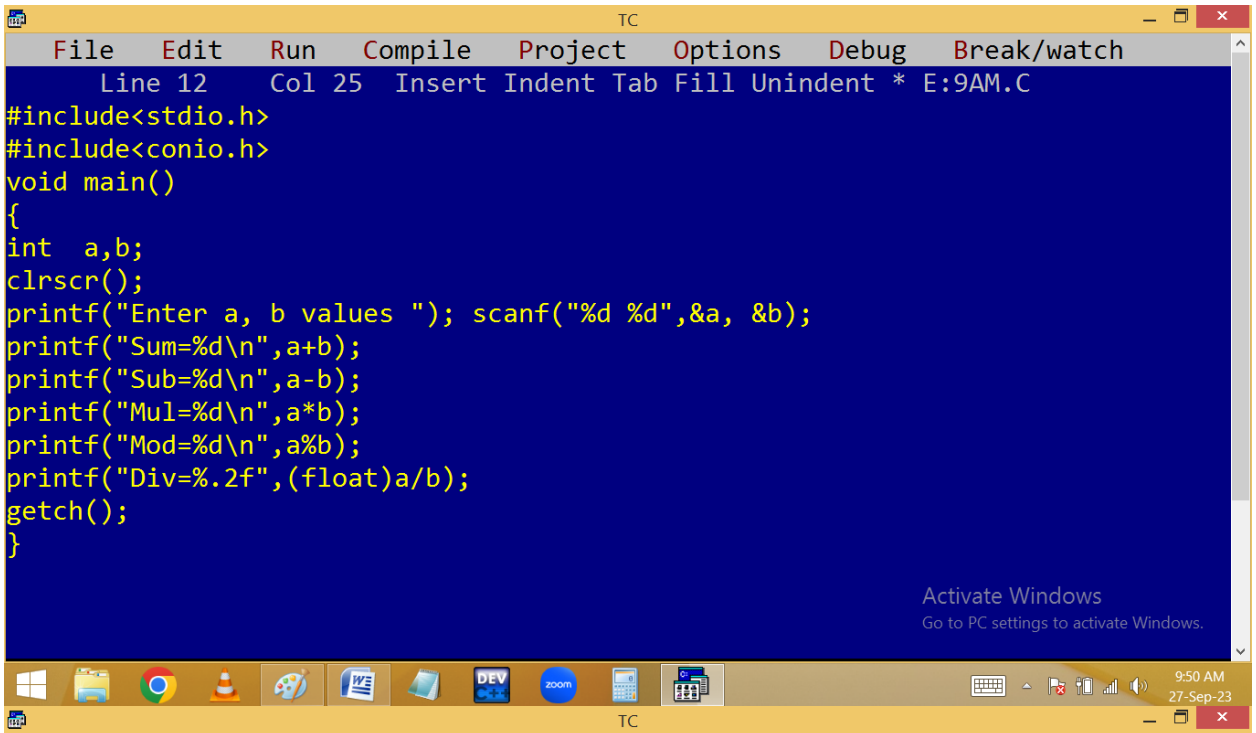


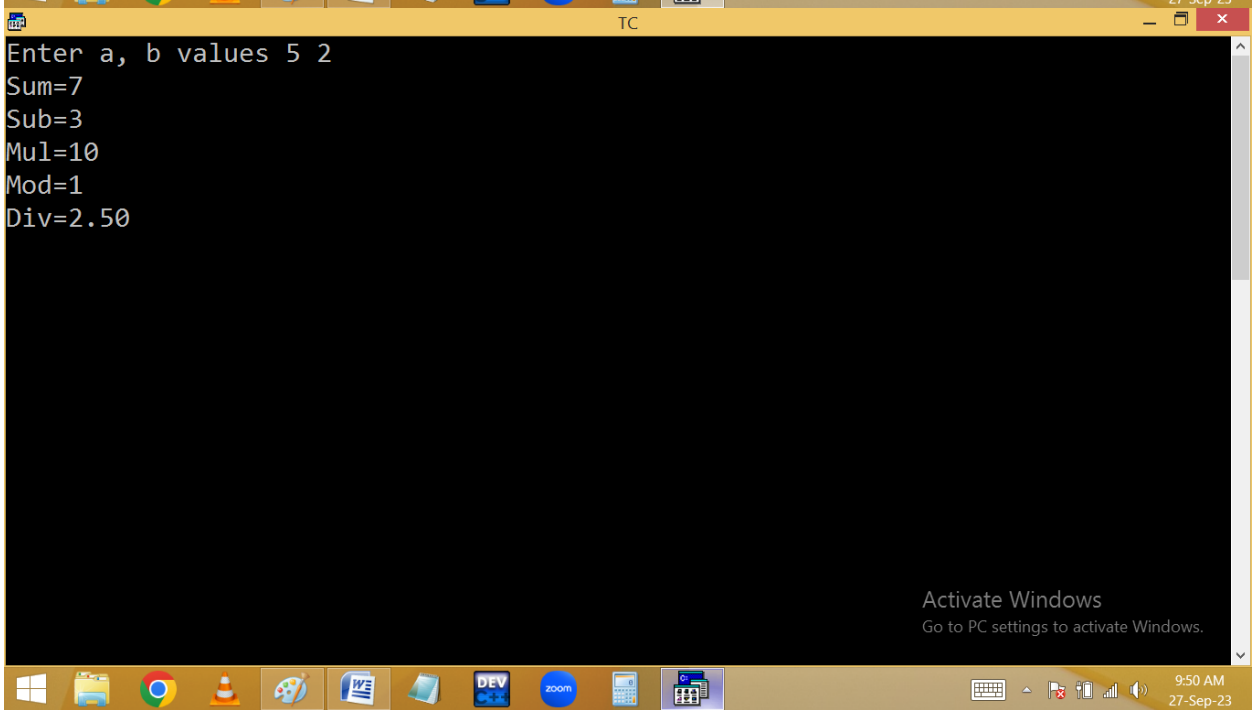

TC
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
printf("Sum=%d\n",a+b);
printf("Sub=%d\n",a-b);
printf("Mul=%d\n",a*b);
printf("Mod=%d\n",a%b);
printf("Div=%d",a/b);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
9:48 AM
27-Sep-23

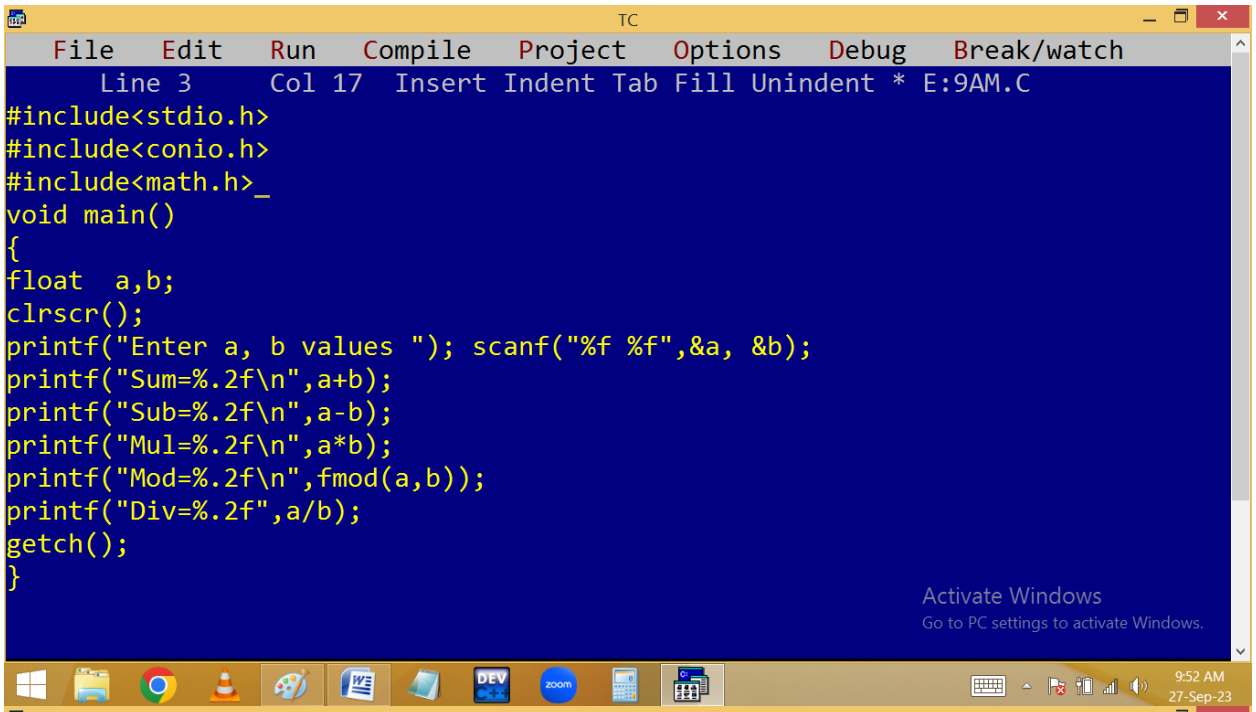

TC
Enter a, b values 5 2
Sum=7
Sub=3
Mul=10
Mod=1
Div=2
Activate Windows
Go to PC settings to activate Windows.
9:48 AM
27-Sep-23

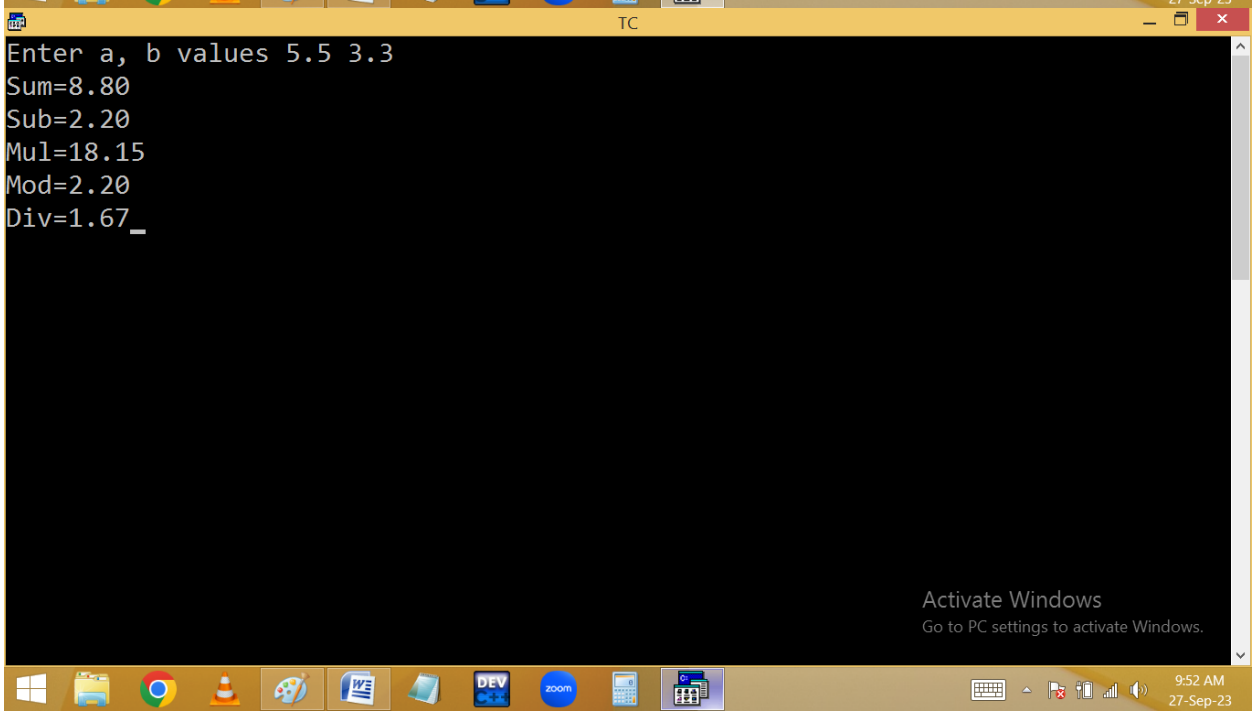

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 16 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
printf("Sum=%d\n",a+b);
printf("Sub=%d\n",a-b);
printf("Mul=%d\n",a*b);
printf("Mod=%d\n",a%b);
printf("Div=%.2f",a/b);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
9:49 AM
27-Sep-23


TC
Enter a, b values 5 2
Sum=7
Sub=3
Mul=10
Mod=1
printf : floating point formats not linked
Abnormal program termination
Activate Windows
Go to PC settings to activate Windows.
9:49 AM
27-Sep-23

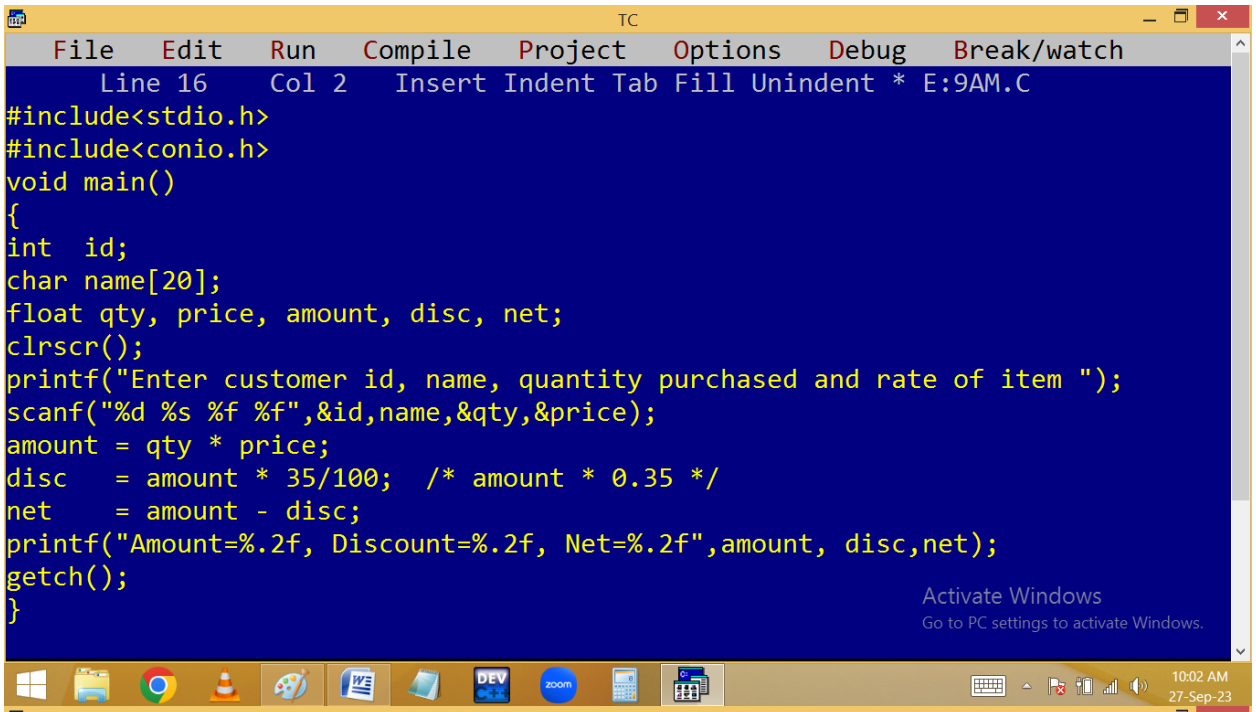

TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 25 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
printf("Enter a, b values "); scanf("%d %d",&a, &b);
printf("Sum=%d\n",a+b);
printf("Sub=%d\n",a-b);
printf("Mul=%d\n",a*b);
printf("Mod=%d\n",a%b);
printf("Div=%.2f",(float)a/b);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
9:50 AM
27-Sep-23

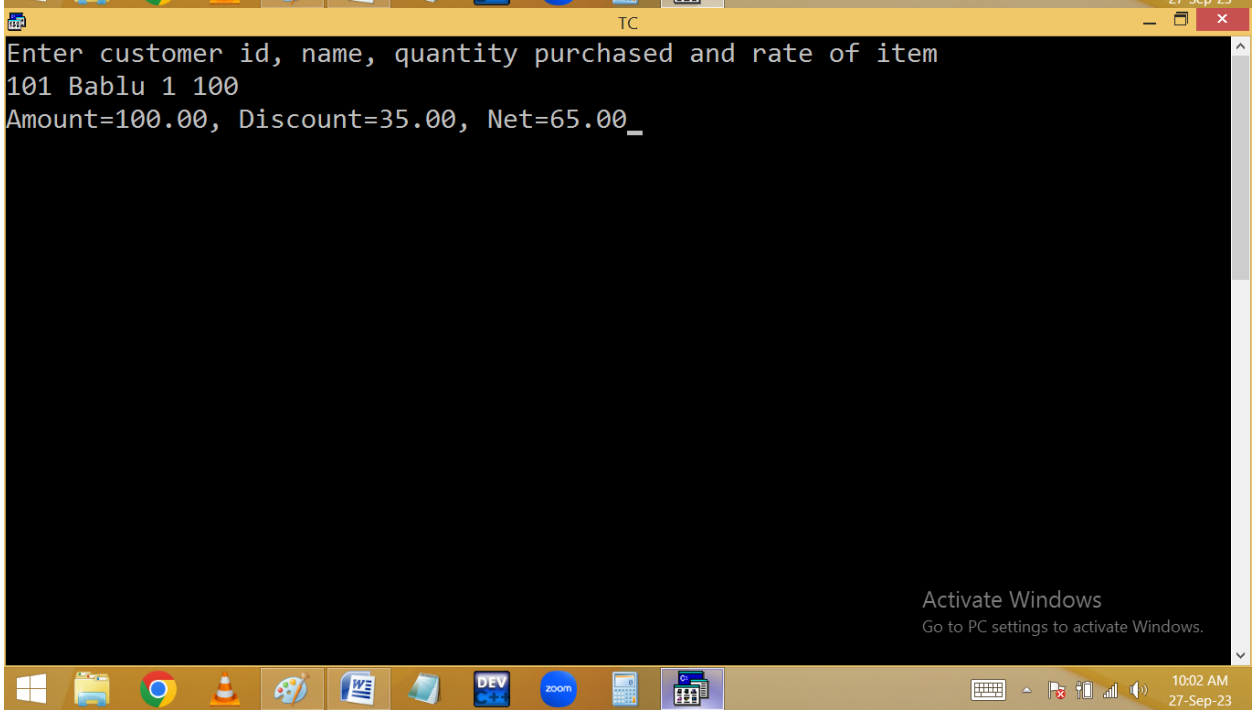

TC
Enter a, b values 5 2
Sum=7
Sub=3
Mul=10
Mod=1
Div=2.50
Activate Windows
Go to PC settings to activate Windows.
9:50 AM
27-Sep-23

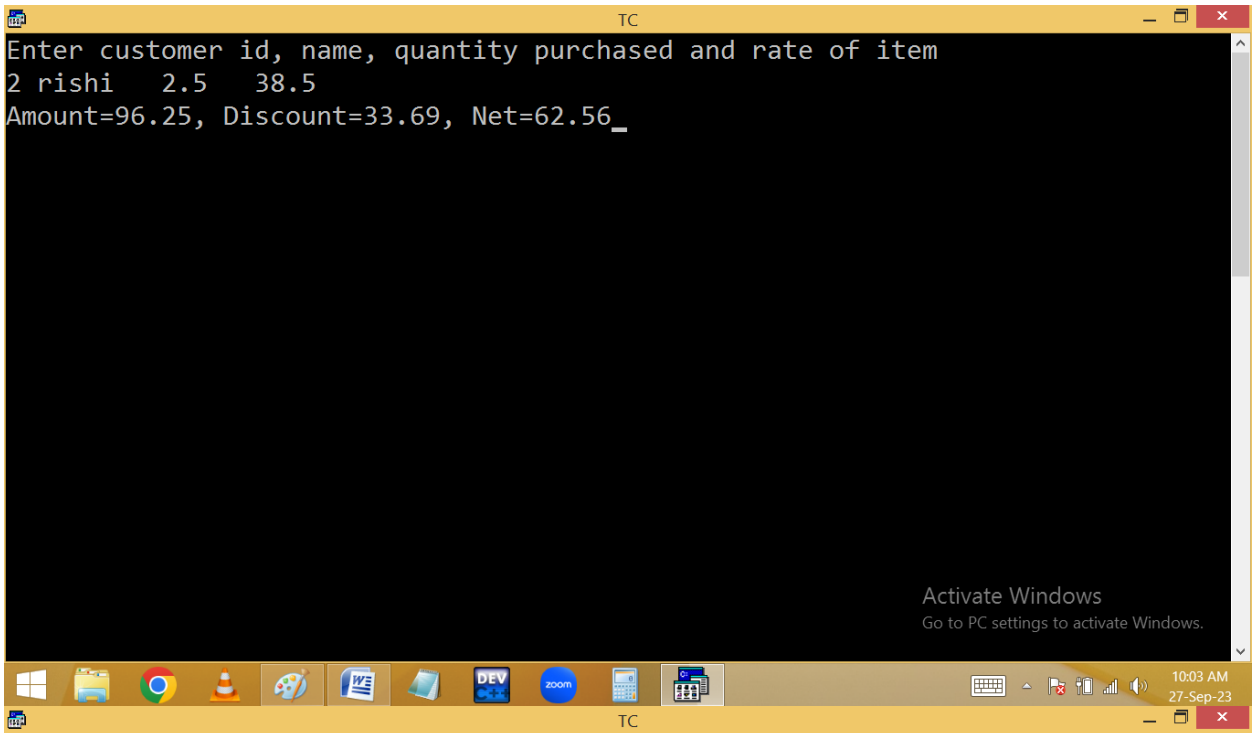


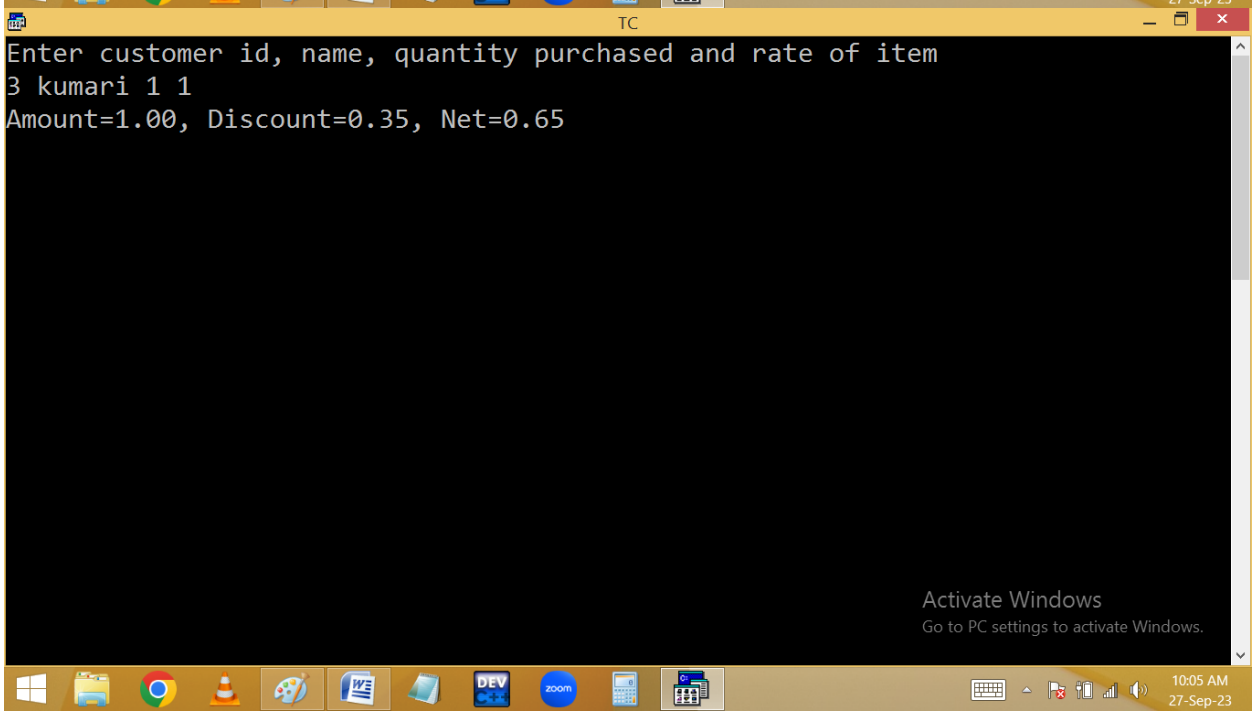


Read a customer id, name, Quantity purchased and rate of item. Find amount, 35% discount and net amount.

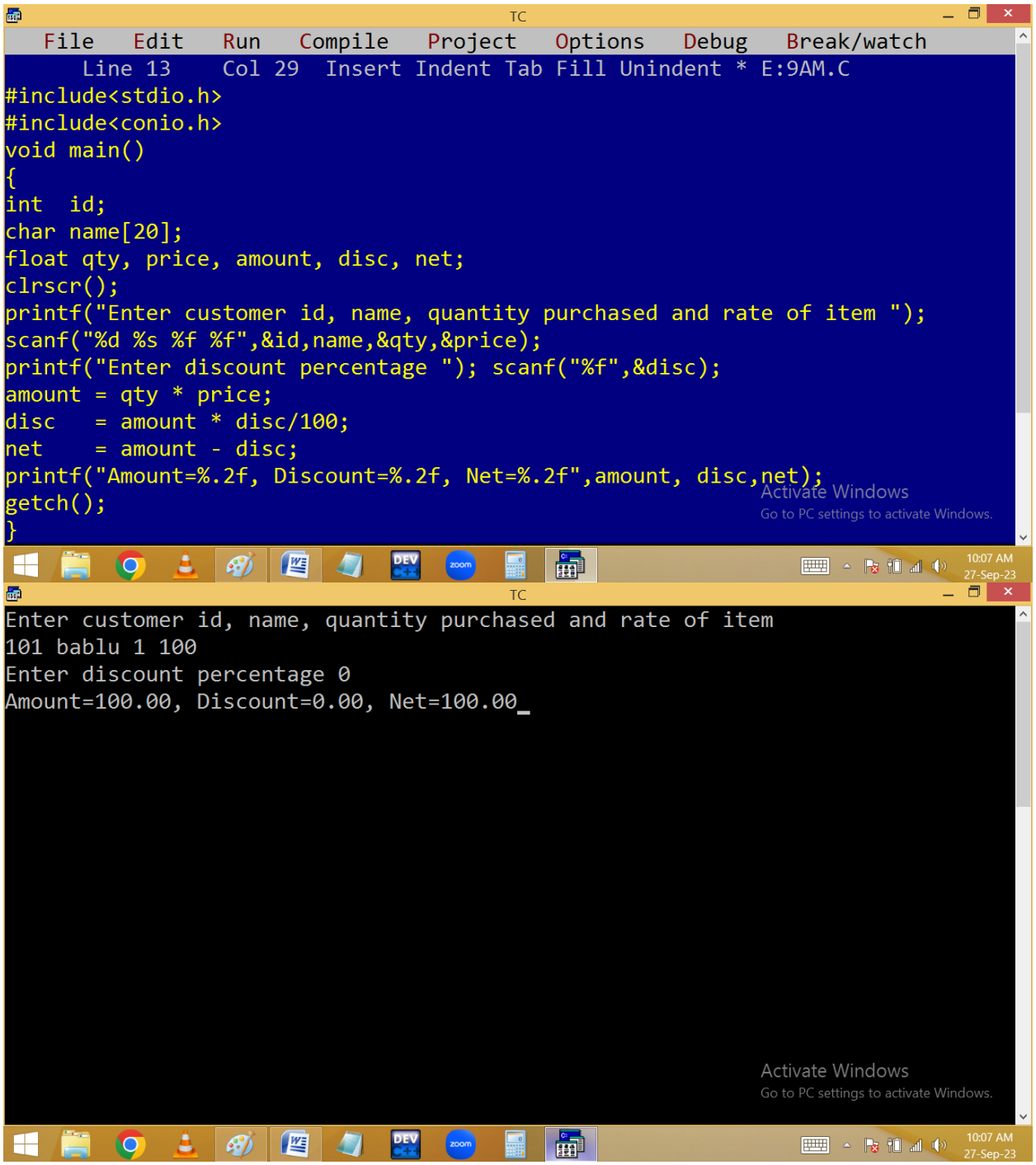

TC
File Edit Run Compile Project Options Debug Break/watch
Line 16 Col 2 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int id;
char name[20];
float qty, price, amount, disc, net;
clrscr();
printf("Enter customer id, name, quantity purchased and rate of item ");
scanf("%d %s %f %f",&id,name,&qty,&price);
amount = qty * price;
disc = amount * 35/100; /* amount * 0.35 */
net = amount - disc;
printf("Amount=%.2f, Discount=%.2f, Net=%.2f",amount, disc,net);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
10:02 AM
27-Sep-23

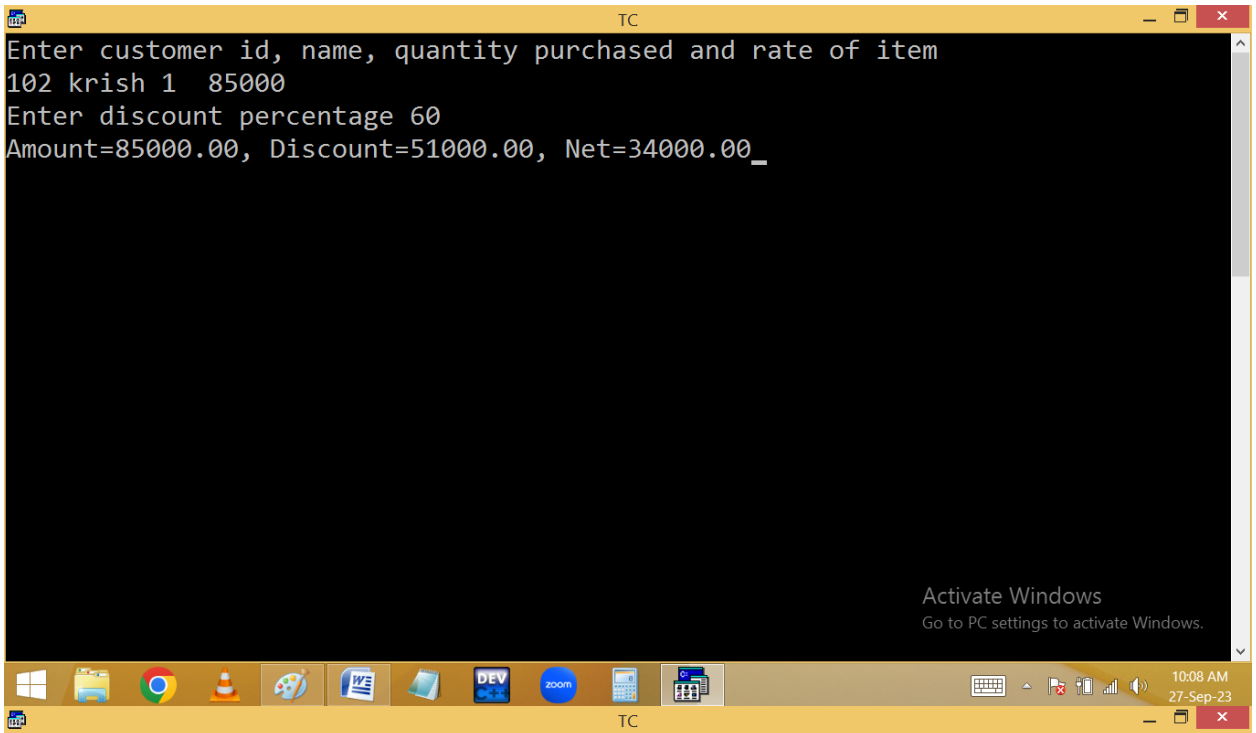

TC
Enter customer id, name, quantity purchased and rate of item
101 Bablu 1 100
Amount=100.00, Discount=35.00, Net=65.00
Activate Windows
Go to PC settings to activate Windows.
10:02 AM
27-Sep-23

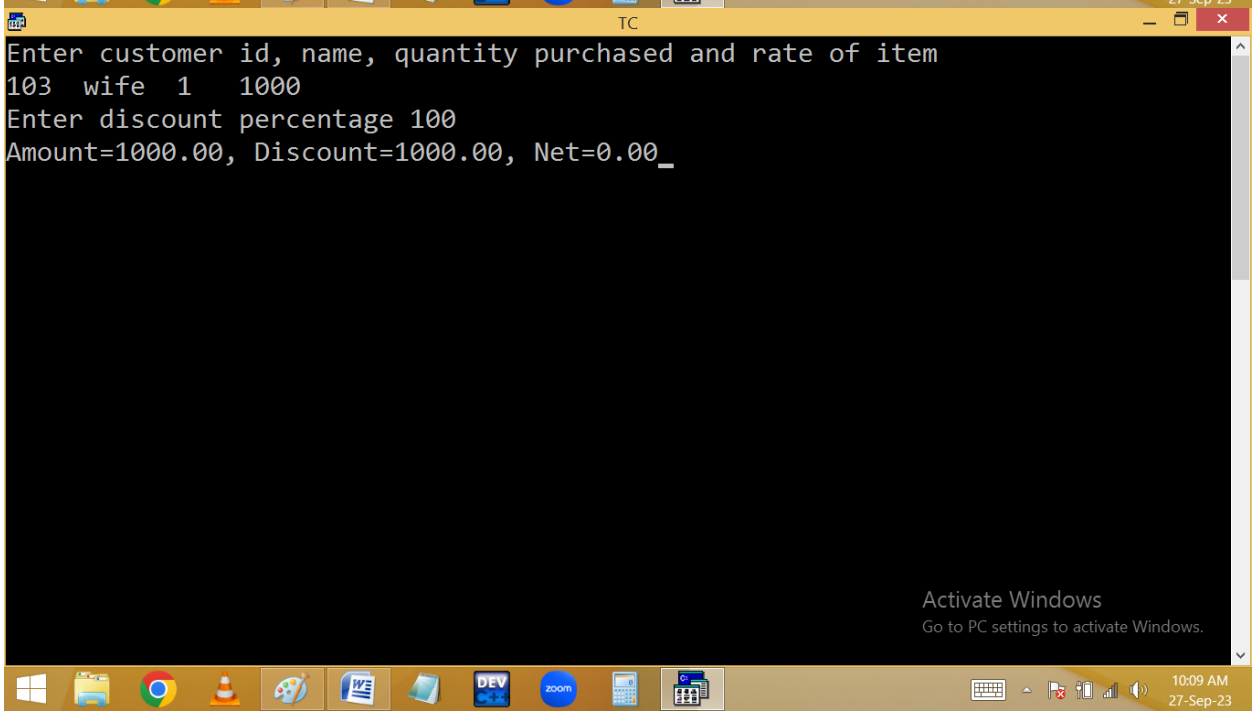




Flexible discount:

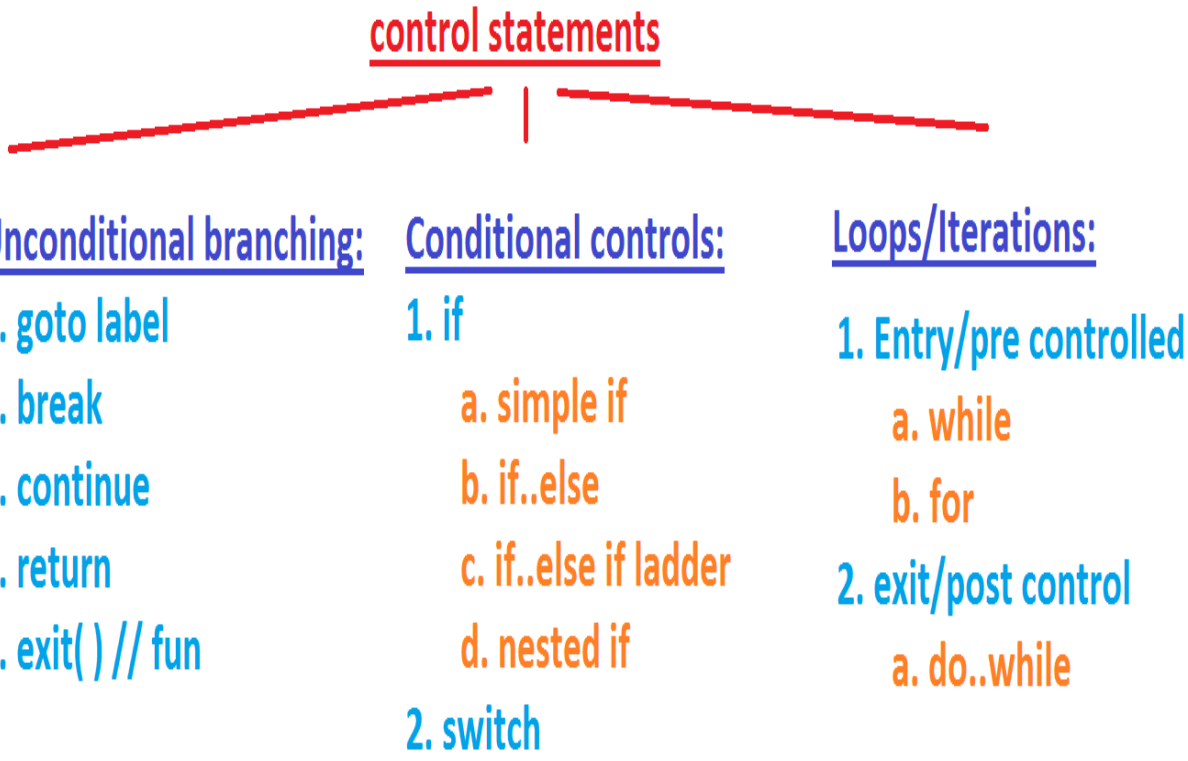

TC
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 29 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int id;
char name[20];
float qty, price, amount, disc, net;
clrscr();
printf("Enter customer id, name, quantity purchased and rate of item ");
scanf("%d %s %f %f",&id,name,&qty,&price);
printf("Enter discount percentage "); scanf("%f",&disc);
amount = qty * price;
disc = amount * disc/100;
net = amount - disc;
printf("Amount=%.2f, Discount=%.2f, Net=%.2f",amount, disc,net);
getch();
}
Activate Windows
Go to PC settings to activate Windows.
10:07 AM
27-Sep-23
TC
Enter customer id, name, quantity purchased and rate of item
101 bablu 1 100
Enter discount percentage 0
Amount=100.00, Discount=0.00, Net=100.00
Activate Windows
Go to PC settings to activate Windows.
10:07 AM
27-Sep-23


TC
Enter customer id, name, quantity purchased and rate of item
102 krish 1 85000
Enter discount percentage 60
Amount=85000.00, Discount=51000.00, Net=34000.00
Activate Windows
Go to PC settings to activate Windows.
10:08 AM
27-Sep-23


TC
Enter customer id, name, quantity purchased and rate of item
103 wife 1 1000
Enter discount percentage 100
Amount=1000.00, Discount=1000.00, Net=0.00
Activate Windows
Go to PC settings to activate Windows.
10:09 AM
27-Sep-23

CONTROL STATEMENTS / CONTROL STRUCTURES

They are used to control program execution order. In c program execution controlled by using below statements.



goto label / jumping statement

It is used to transfer program execution

from one place to another place [label].

In this process it is jumping from one area to another without any condition. Hence it is also called **unconditional** jumping statement.

Syntax:

Here **goto** is a keyword.

Label is an identifier is used to identify the area[line].

Every label should be end with **:** (colon)

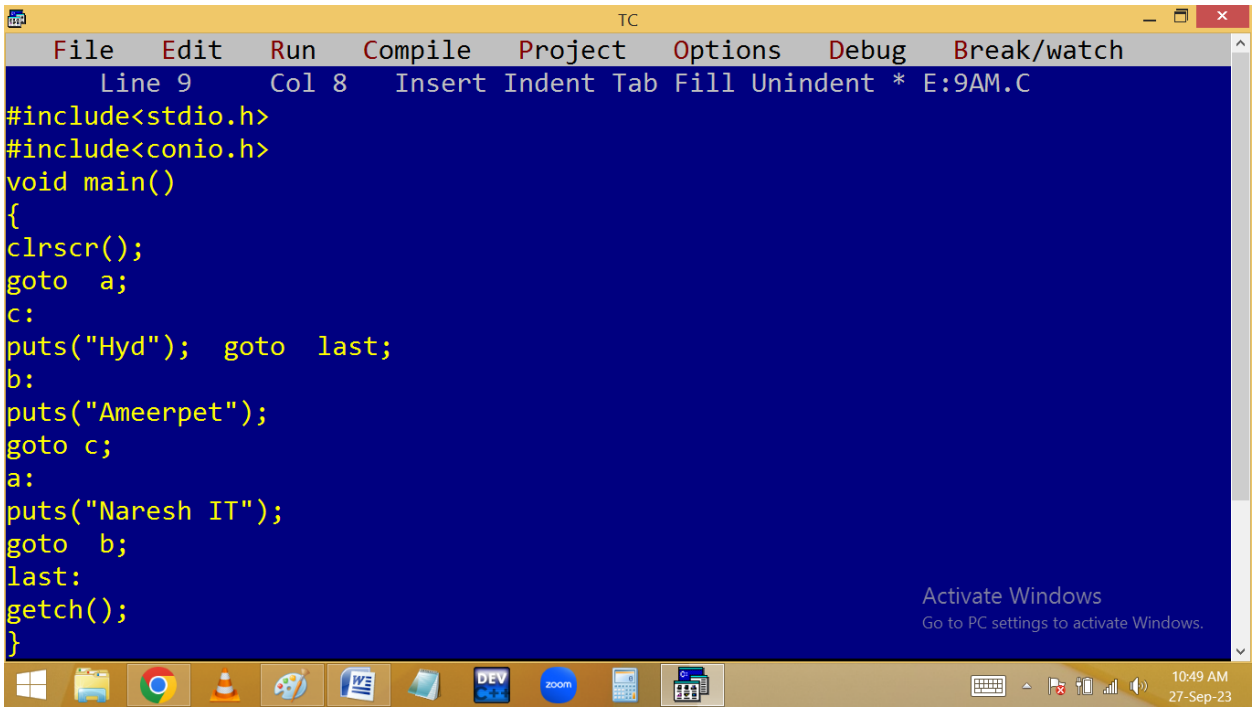
Keywords not allowed in labels i.e. label should be user defined.

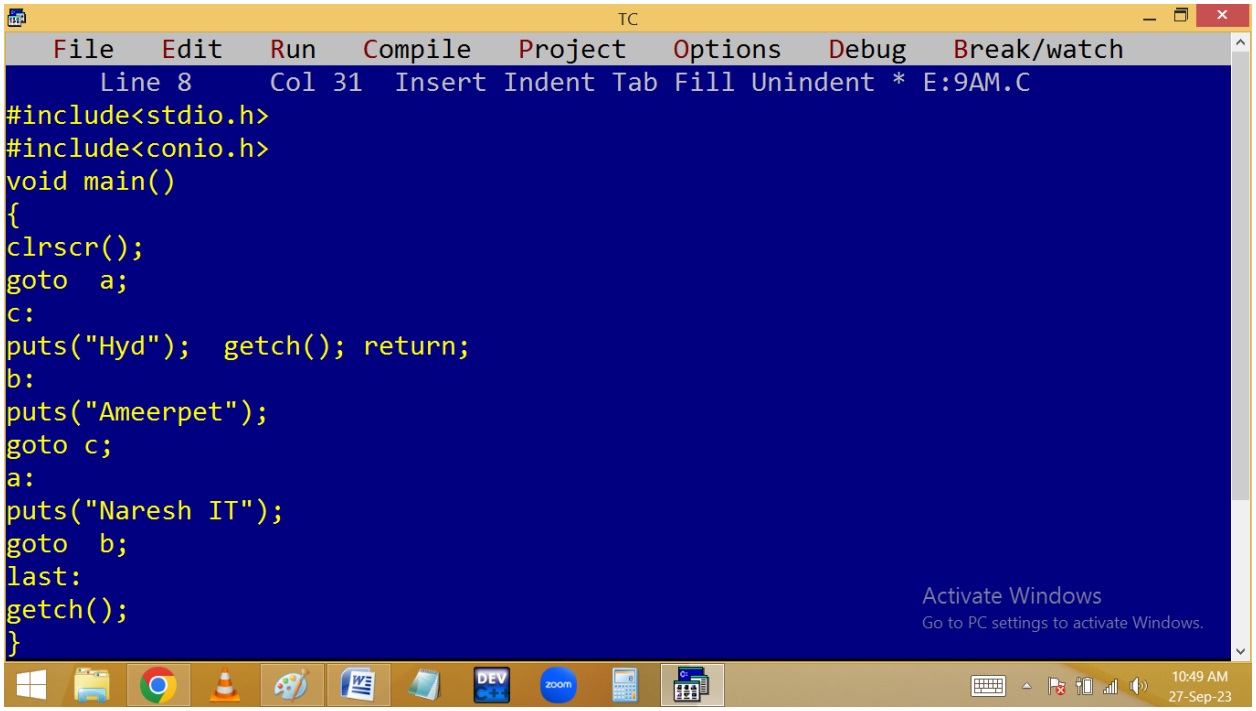
Duplicate labels not allowed.

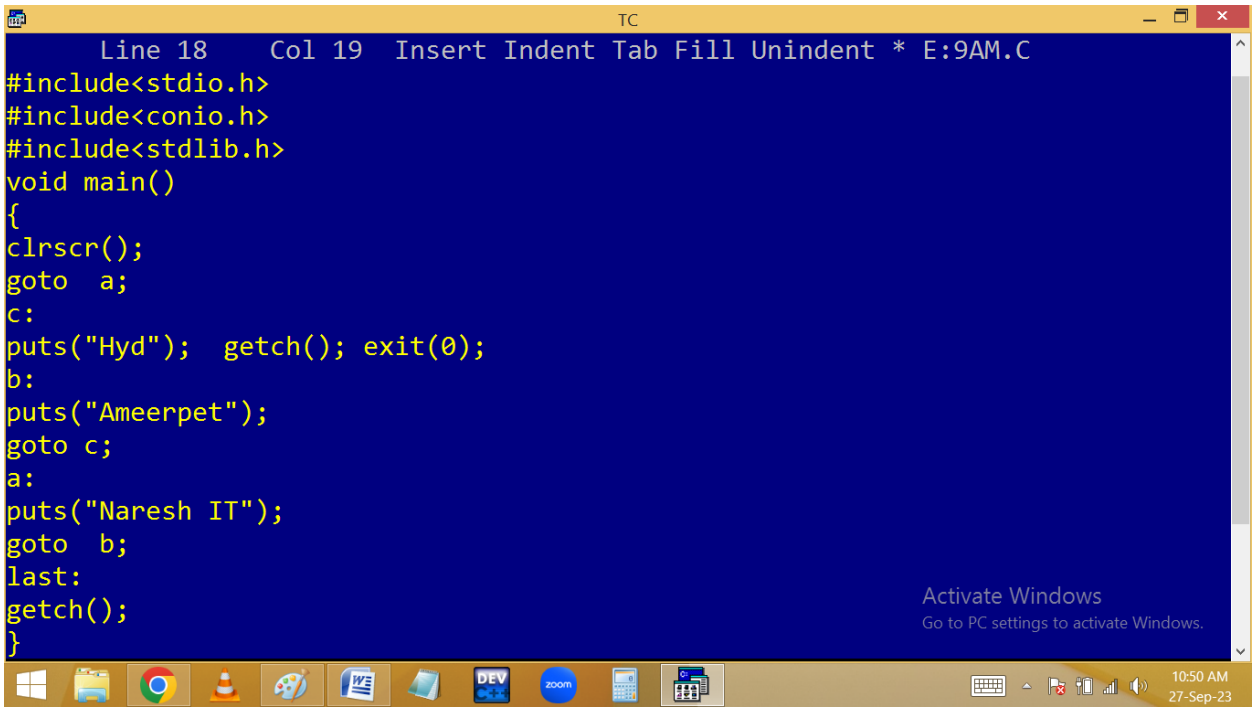
There is no space between go and to.

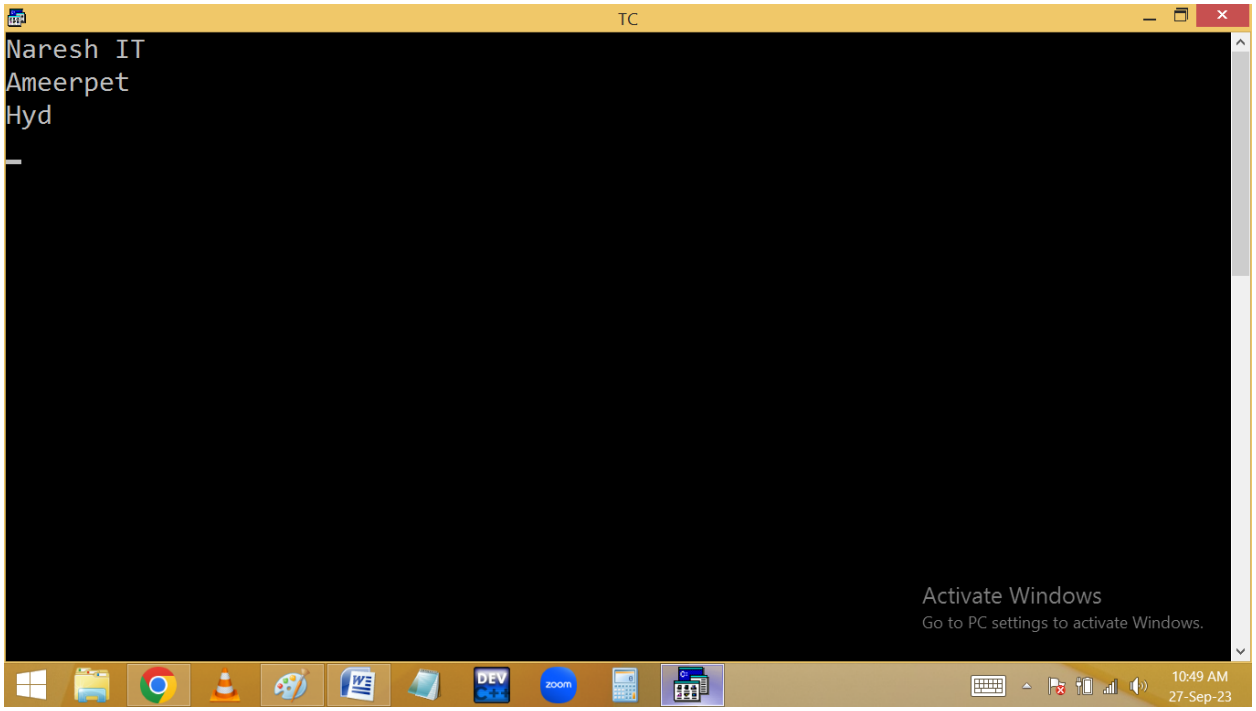
Label naming rules are similar to the identifier rules.

Note: goto label working style is similar to loops some times.


TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 8 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
goto a;
c:
puts("Hyd"); goto last;
b:
puts("Ameerpet");
goto c;
a:
puts("Naresh IT");
goto b;
last:
getch();
}
Activate Windows
Go to PC settings to activate Windows.
10:49 AM
27-Sep-23


TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 31 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
goto a;
c:
puts("Hyd"); getch(); return;
b:
puts("Ameerpet");
goto c;
a:
puts("Naresh IT");
goto b;
last:
getch();
}
Activate Windows
Go to PC settings to activate Windows.
10:49 AM
27-Sep-23


TC
Line 18 Col 19 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main()
{
clrscr();
goto a;
c:
puts("Hyd"); getch(); exit(0);
b:
puts("Ameerpet");
goto c;
a:
puts("Naresh IT");
goto b;
last:
getch();
}
Activate Windows
Go to PC settings to activate Windows.
10:50 AM
27-Sep-23


TC
Naresh IT
Ameerpet
Hyd
Activate Windows
Go to PC settings to activate Windows.
10:49 AM
27-Sep-23