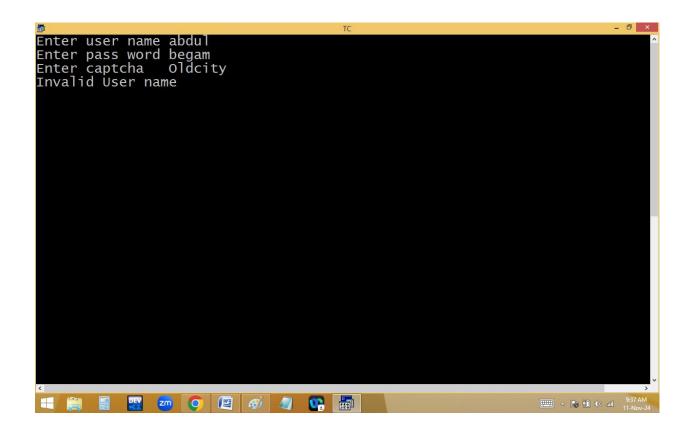
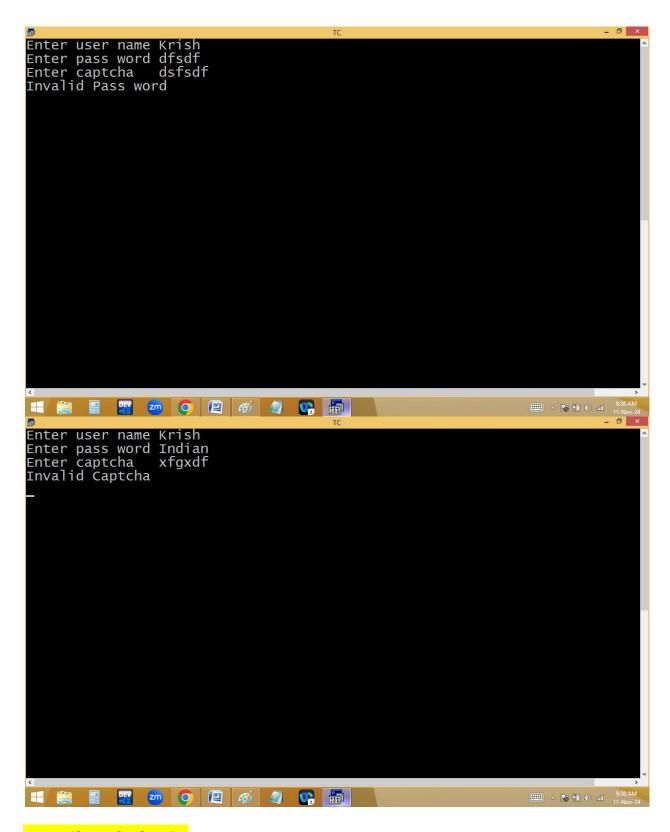
## **IRCTC Login**

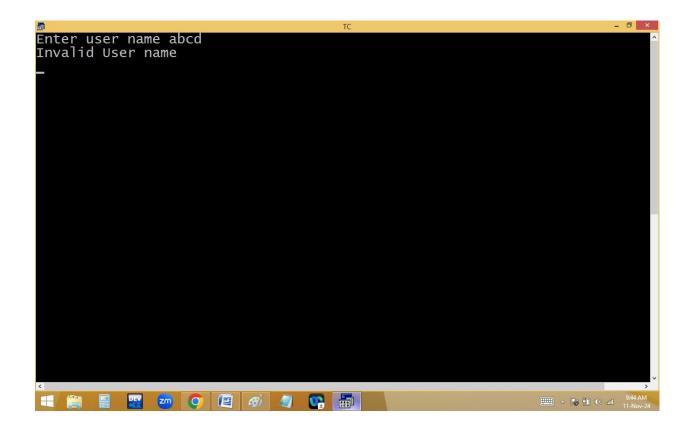
```
File Edit Run Compile Project Options Debug Break/watch
Line 20
#include<stdio.h>
                     Col 1
                               Insert Indent Tab Fill Unindent * E:9AM.C
#include<conio.h>
#include<string.h>
void main()
char user[20],pass[20],cap[10];
clar dser[20],pdss[20],edp[20],
clrscr();
printf("Enter user name "); scanf("%s",user);
printf("Enter pass word "); scanf("%s",pass);
printf("Enter captcha "); scanf("%s",cap);
if(strcmp(user,"Krish")==0)
          if(strcmp(pass,"Indian")==0)
                    if(strcmp(cap,"Hyd-1")==0)puts("Welcome to IRCTC");
else puts("Invalid Captcha");
          else puts("Invalid Pass word");
else puts("Invalid User name");
getch();
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM
                 zm 🔘 🖺 🧭 🥒
                                                                             ■ ^ 10 11 () ⊿1 ,
Enter user name Krish
Enter pass word Indian
Enter captcha Hyd-1
Welcome to IRCTC
             9:34 AM
```

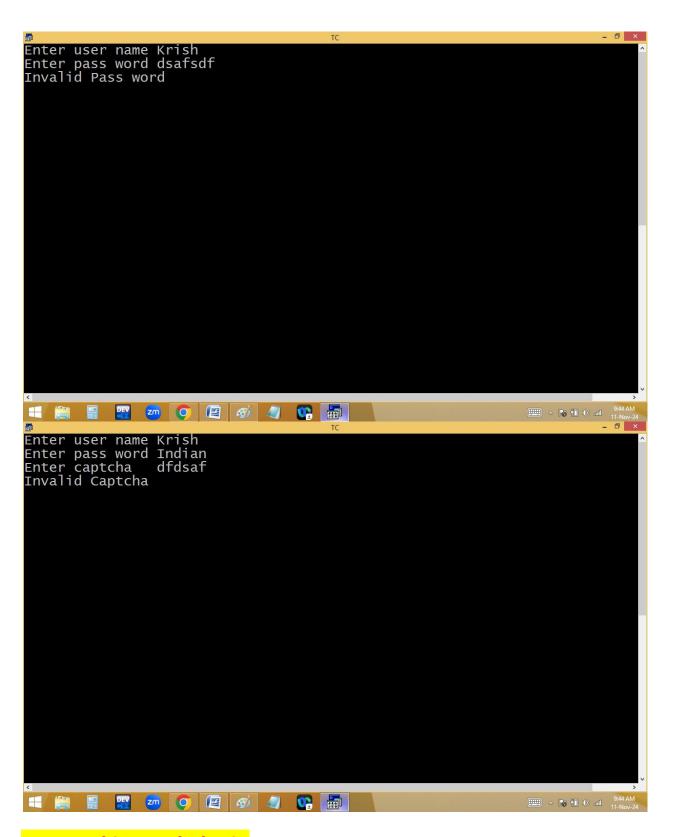




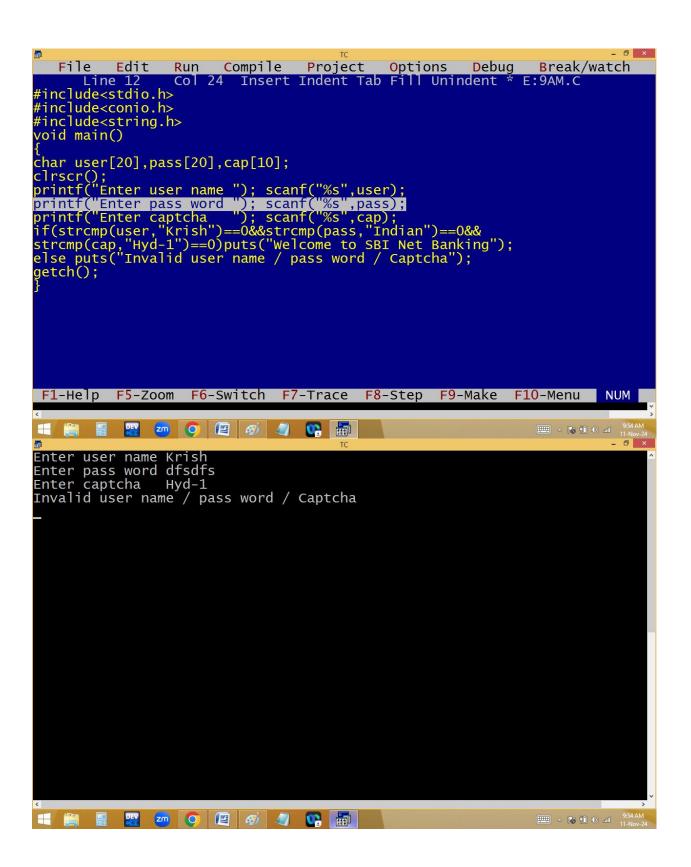
## **Gmail style login**

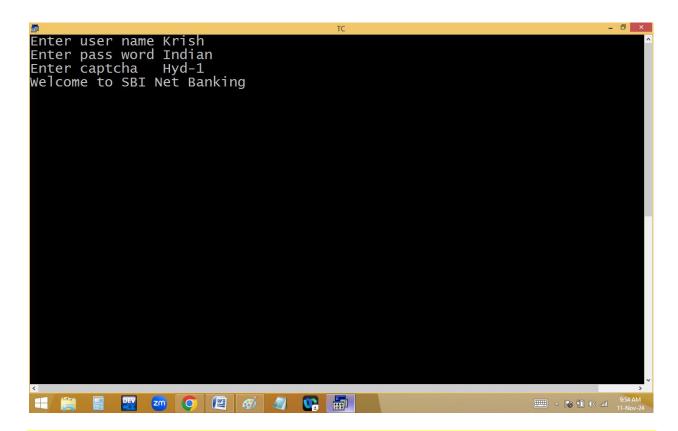
```
_ 0 ×
                Run Compile Project Options Debug Break/watch
Col 65 Insert Indent Tab Fill Unindent * E:9AM.C
   File
        Edit
Line 15 (
#include<stdio.h>
#include<conio.h>
#include<string.h>
yoid main()
char user[20],pass[20],cap[10];
clrscr();
printf("Enter user name "); scanf("%s",user);
if(strcmp(user,"Krish")==0)
printf("Enter pass word "); scanf("%s",pass);
   if(strcmp(pass,"Indian")==0)
        else puts("Invalid Pass word");
else puts("Invalid User name");
getch();
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM
          Enter user name Krish
Enter pass word Indian
Enter captcha Hyd-1
               Hyd-1
Welcome to Gmail
           9.44 AM
```





**Net Banking style login**:

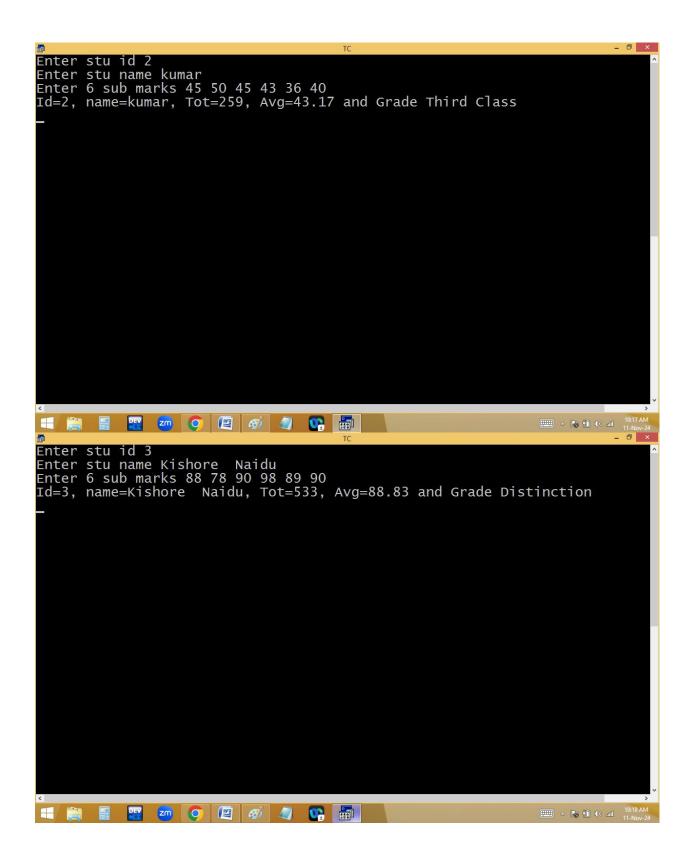




Read a stu id, name, 6 sub marks. Find total, avg, grade using below table.

Avg	Grade
>=75	Distinction
>=60	First class
>=50	Second class
>=35	Third class
<35	Fail

```
_ 0 ×
    File Edit Run Compile Project Options Debug Break/watch
Line 4 Col 67 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h> #include<conio.h>
void main()
int id,tel,eng,hin, mat, sci, soc, tot; char name[30]; float avg; clrscr();
printf("Enter stu id "); scanf("%d",&id);
flushall();
printf("Enter stu name "); gets(name);
printf("Enter 6 sub marks ");
scanf("%d%d%d%d%d%d",&tel,&eng,&hin,&mat,&sci,&soc);
tot=tel+eng+hin+mat+sci+soc;
tot=tel+eng+hin+mat+sci+soc;
avg=tot/6.0;
printf("Id=%d, name=%s, Tot=%d, Avg=%.2f and Grade ",id,name,tot,avg);
if(tel>=35&&eng>=35&&hin>=35&&mat>=35&&sci>=35&&soc>=35)
if(avg>=75) puts("Distinction");
else if(avg>=60)puts("First Class");
else if(avg>=50)puts("Second Class");
else puts("Third Class");
else puts("Failed");
getch();
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM
 ■ ~ 16 11 () a ,
Enter stu id 1
Enter stu name kumari
Enter 6 sub marks 65 54 45 34 44 35
Id=1, name=kumari, Tot=277, Avg=46.17 and Grade Failed
                 △ 🏗 🕆 🗥 🕩 adl 11-Nov-24
```

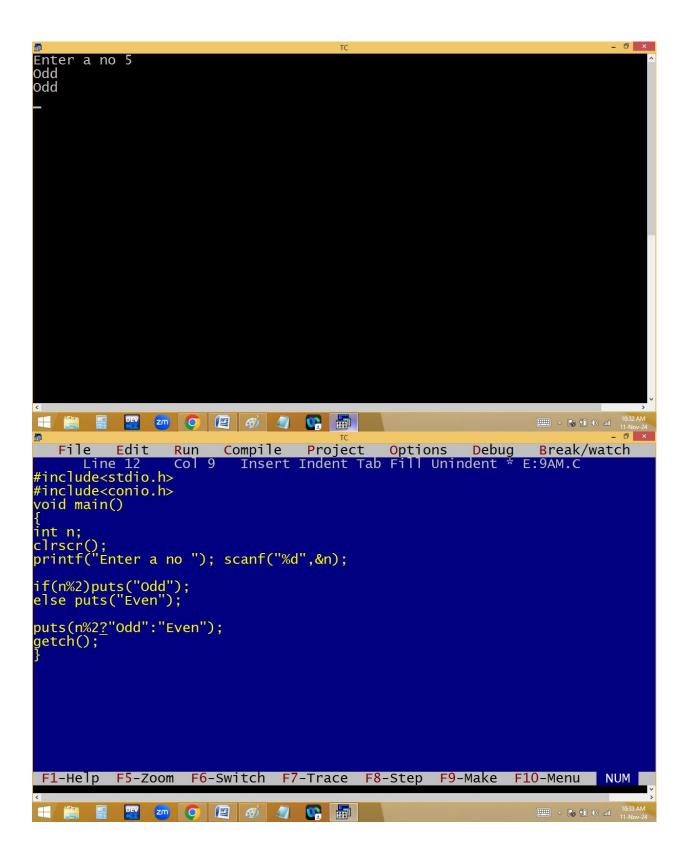


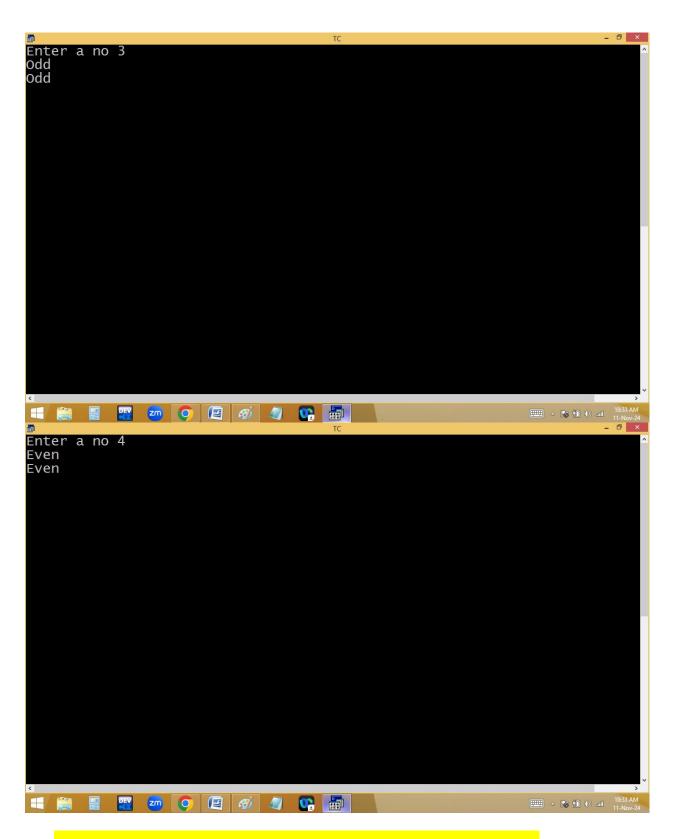
```
- 🗇 ×
    File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 10 Insert Indent Tab Fill Unindent * E:9AM.C
#include<stdio.h> #include<conio.h>
void main()
int id,tel,eng,hin, mat, sci, soc, tot; char name[30]; float avg; clrscr(); printf("Enter stu id "); scanf("%d",&id);flushall(); printf("Enter stu name "); gets(name); printf("Enter 6 sub marks "); scanf("%d%d%d%d%d%d",&tel,&eng,&hin,&mat,&sci,&soc);
tot=tel+eng+hin+mat+sci+soc;
puts("Id\tName\tTotal\tAvg\tGrade");
puts("------
printf("%d\t%s\t%d\t%.2f\t",id,name,tot,avg);
if(tel>=35&&eng>=35&&hin>=35&&mat>=35&&sci>=35&&soc>=35)
if(avg>=75) puts("Distinction");
else if(avg>=60)puts("First Class");
else if(avg>=50)puts("Second Class");
else puts("Third Class");
else puts("Failed");
getch(); }
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM
 ■ ~ 16 11 () a ,
Enter stu id 9
Enter stu name Gopi Krishna
Enter 6 sub marks 65 78 76 69 80 68
                        Total
Id
            Name
                                   Avg
                                               Grade
9
                                    436
                                                72.67
            Gopi Krishna
                                                           First Class
                △ 🏗 🕩 add 11-Nov-24
```

```
- 🗇 ×
                        Run Compile Project Options Debug Break/watch
Col 13 Insert Indent Tab Fill Unindent * E:9AM.C
              Edit
         Line 13
#include<stdio.h> #include<conio.h>
void main()
int id,tel,eng,hin, mat, sci, soc, tot; char name[30]; float avg; clrscr(); printf("Enter stu id "); scanf("%d",&id);flushall(); printf("Enter stu name "); gets(name); printf("Enter 6 sub marks "); scanf("%d%d%d%d%d%d",&tel,&eng,&hin,&mat,&sci,&soc);
tot=tel+eng+hin+mat+sci+soc;
avg=tot/6.Ŏ;
printf("%-4s %-20s%6s%10s\tGrade\n","Id","Name","Total","Avg");
printf("%-4d_%-20s%6d\t%10.2f\t",id,name,tot,avg);
if(tel>=35&&eng>=35&&hin>=35&&mat>=35&&sci>=35&&soc>=35)
if(avg>=75) puts("Distinction");
else if(avg>=60)puts("First Class");
else if(avg>=50)puts("Second Class");
else puts("Third Class");
else puts("Failed");
getch(); }
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM
                ■ ~ 16 11 () a ,
Enter stu id 1
Enter stu name Krishna rao
Enter 6 sub marks 77 66 88 67 67 76
Id
                                       Total
                                                         Ava
                                                                        Grade
                                          441
                                                        73.50
       Krishna rao
                                                                        First Class
                △ 🏗 🛈 🕩 add 11-Nov-24
```

## Finding even/odd using ternary operator?

```
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 1 Insert Indent Tab Fill Unindent * E:9AM.C
Line 12 (
#include<stdio.h>
#include<conio.h>
void main()
int n;
clrscr();
printf("Enter a no "); scanf("%d",&n);
if(n%2==0)puts("Even");
else puts("Odd");
puts(n%2==0?"Even":"Odd");
getch();
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu NUM
              Enter a no 4
Even
Even
10:32 AM
```





**Ternary / Conditional operator**(?:)

It is similar to if else / ladder if in working style.

It allows to complete if else / ladder if in a single statement.

When we are working with if else/ladder if it is going to take more than one line of statements. Ternary operator is going to finish the same task in a single statement.

But the difference between if ...else and ternary operator is ternary operator supports only one statement at a time and if supports any number of statements.

It is having 3 expressions. Hence it is called ternary operator.

It is starting with a condition. Hence it is called conditional operator.

## **Syntax:**

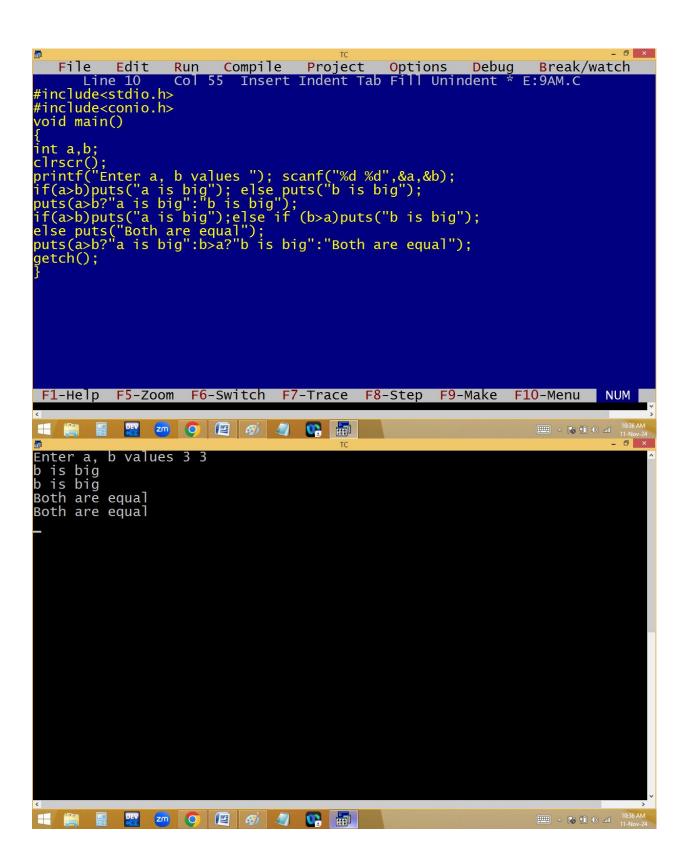
condition ? true statement : false statement ;
exp1/op1 exp2/op2 exp3/op3

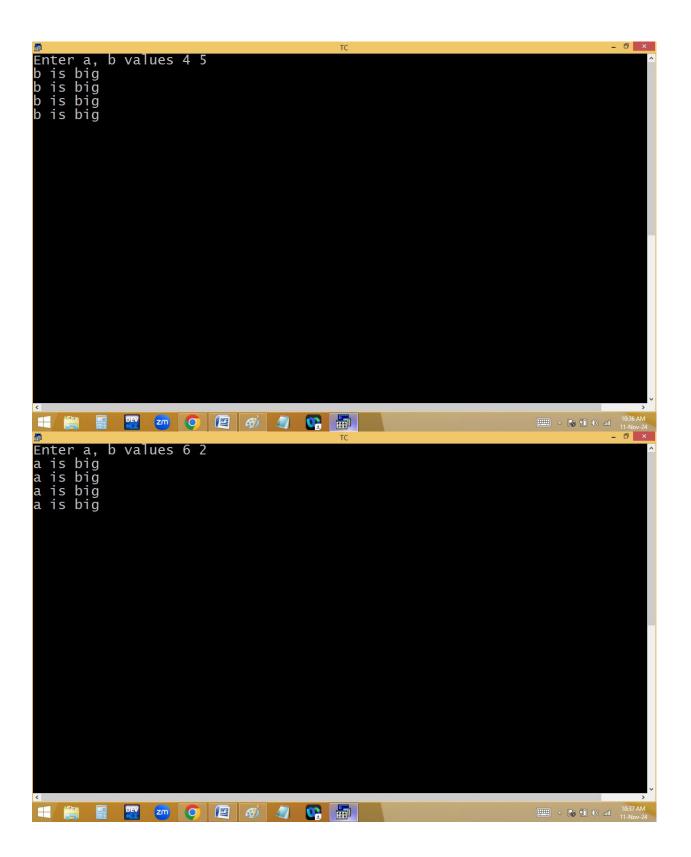
If condition true, statement after ? executed.

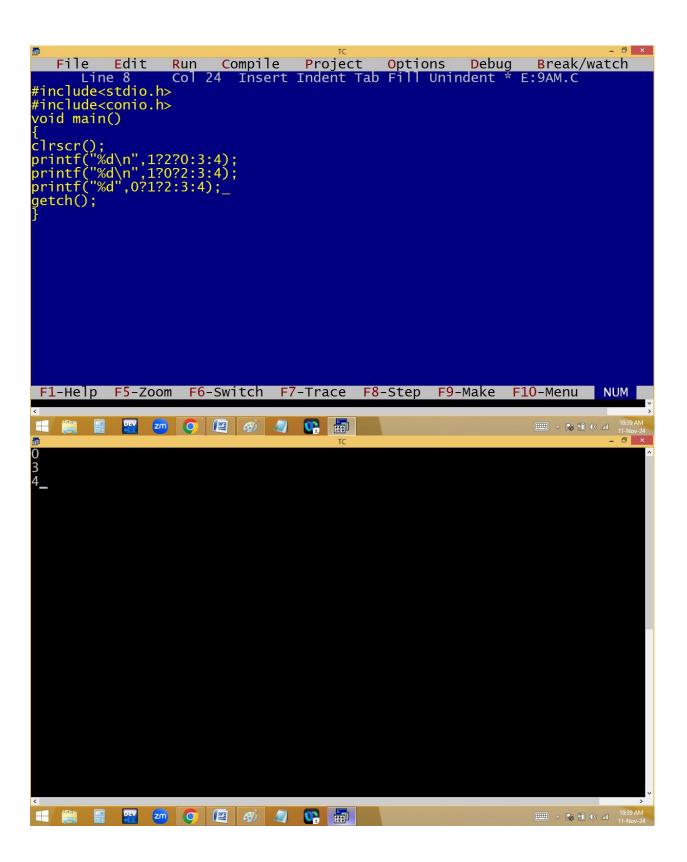
If condition false, statement after: is executed.

When compared with if else, conditional operator performance is high.

Finding max in 2 no's using single statement/ternary op:







```
con
                                            if(1)
                                            { 1
1 ?
          ?
              0
                     3
                          4
                        .
                                            if(2)p(0);
                                            else p(3);
                                            }
con?
                        : false
           true
                                            else p(4);
           ?
      con
                                               if(1)
                                               { ↓
1
               2
                      3
                                              if(0)p(2);
                                              else p(3);
con?
                         : false
            true
                                               else p(4);
     con
          ? t:
                                              if(0)
0 ?
           ?
              2:
                     3
                        : 4
                                              if(1)p(2);
                                              else p(3);
                                              }
con?
                         : false
            true
                                              else p(4);
```