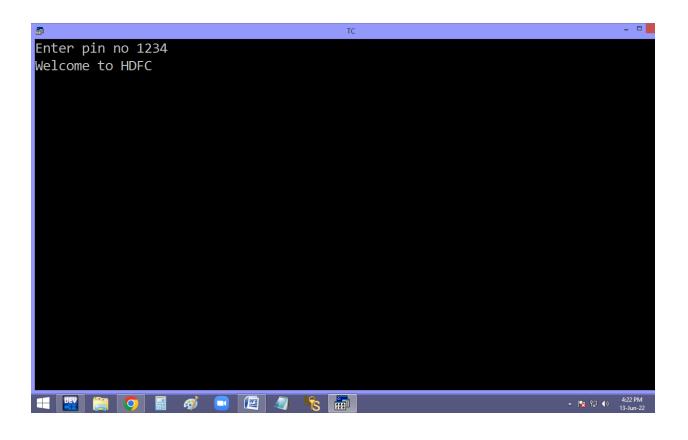
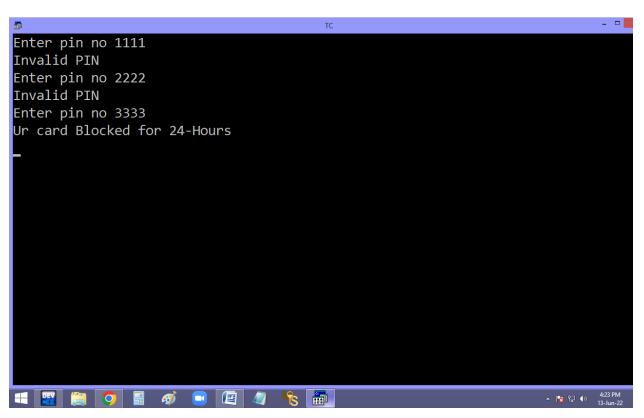
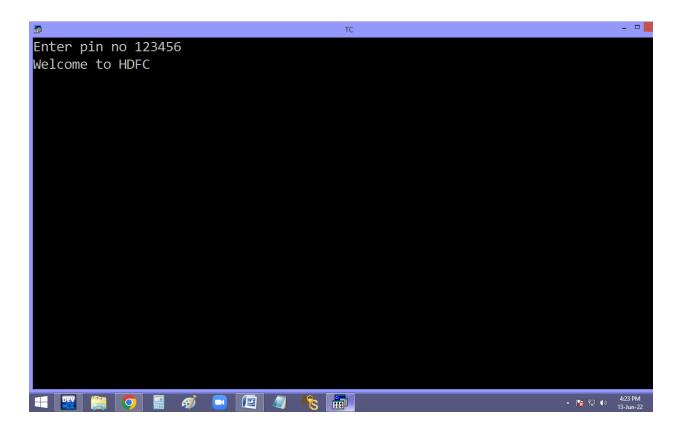
## **ATM PIN Validation:**

```
File Edit Run Compile Project Options
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                                                   Debug
     Line 14
                Col 6 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int pin, c=0; clrscr();
abc:
printf("Enter pin no "); scanf("%4d",&pin);
if(pin==1234)puts("Welcome to HDFC");
else
c++; if(c==3)puts("Ur card Blocked for 24-Hours");
puts("Invalid PIN"); goto abc;
getch();
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13-Jun-22
```

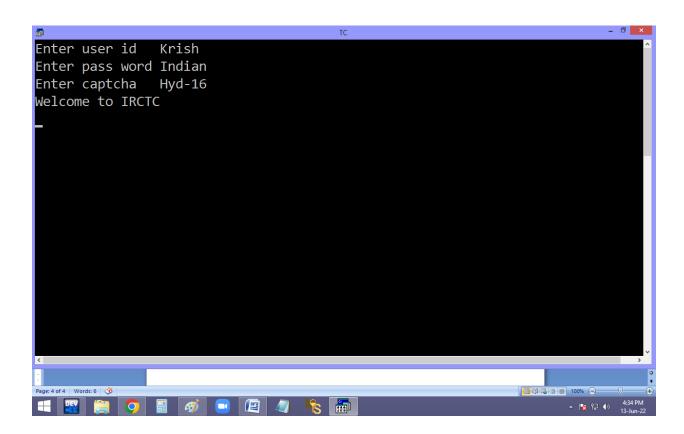


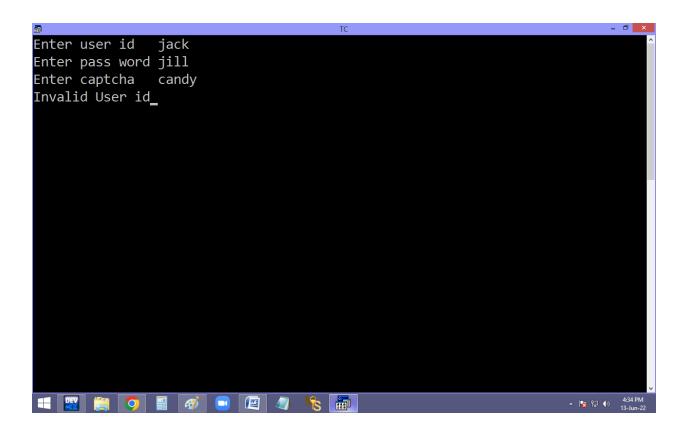


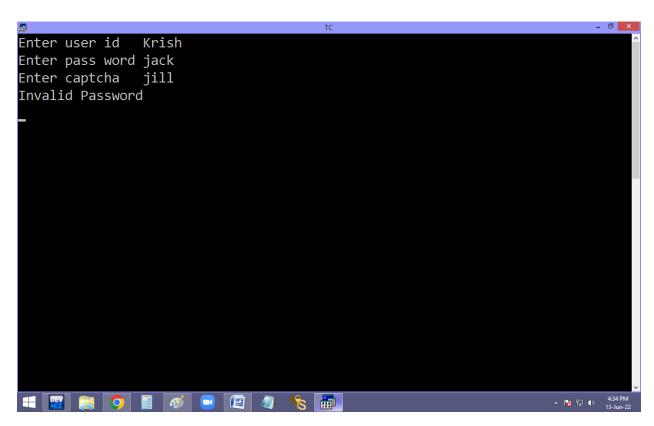


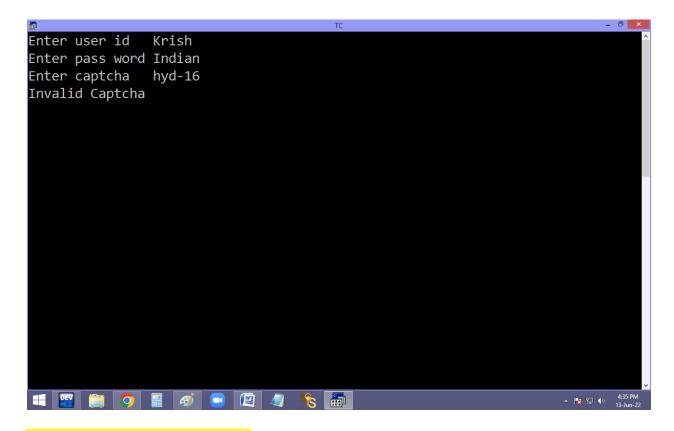
**Eg. IRCTC Login:** 

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
char user[20], pass[20], cap[20]; clrscr();
printf("Enter user id "); 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-16")==0)puts("Welcome to IRCTC");
else puts("Invalid Captcha");
else puts("Invalid Password");
else printf("Invalid User id"); getch();
                                                                       ▲ 🙀 😭 🐠 4:35 PM
13-Jun-22
```



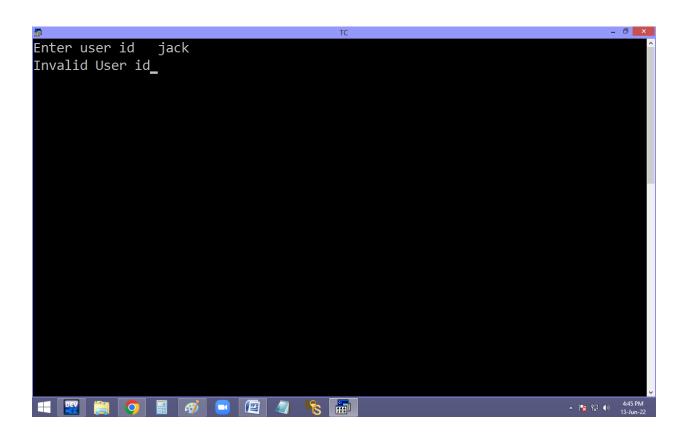


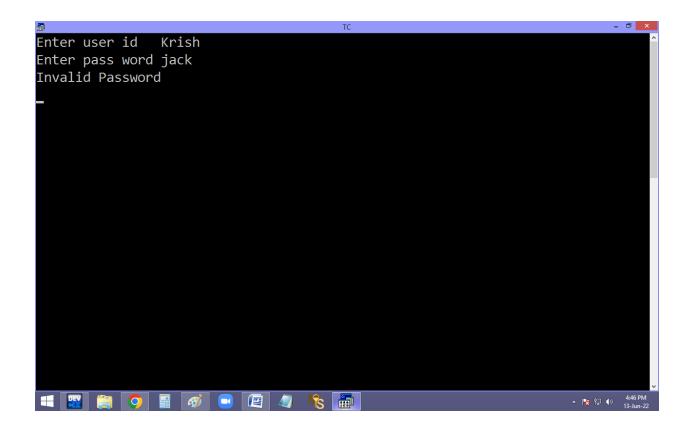


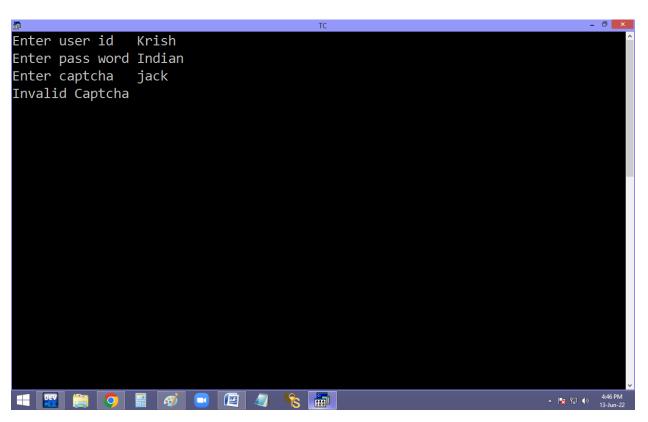


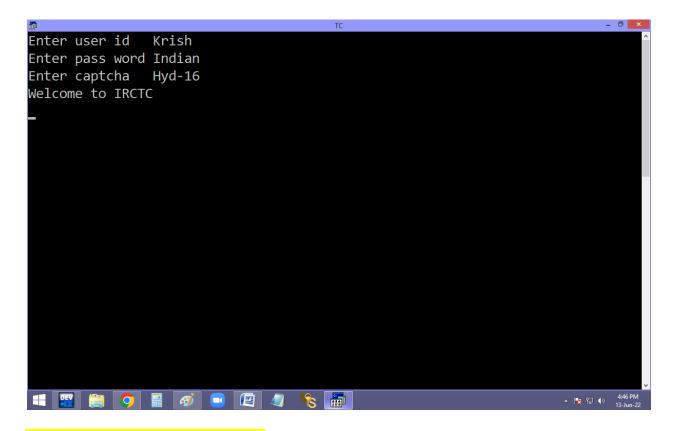
**Gmail type login:** 

```
- 🗇 ×
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
char user[20], pass[20], cap[20]; clrscr();
printf("Enter user id "); scanf("%s",user);
if(strcmp(user, "Krish")==0)
printf("Enter pass word "); scanf("%s",pass);
if(strcmp(pass,"Indian")==0)
printf("Enter captcha "); scanf("%s", cap);
if(strcmp(cap,"Hyd-16")==0)puts("Welcome to IRCTC");
else puts("Invalid Captcha");
else puts("Invalid Password");
else printf("Invalid User id"); getch();
                                                                      ▲ 🔽 🖓 🌓 4:45 PM
13-Jun-22
```



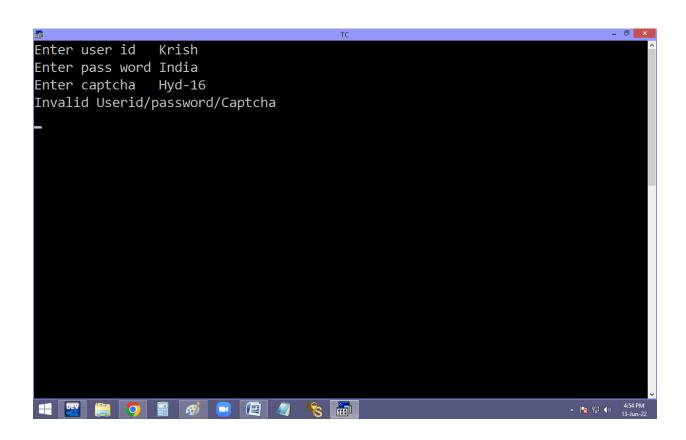


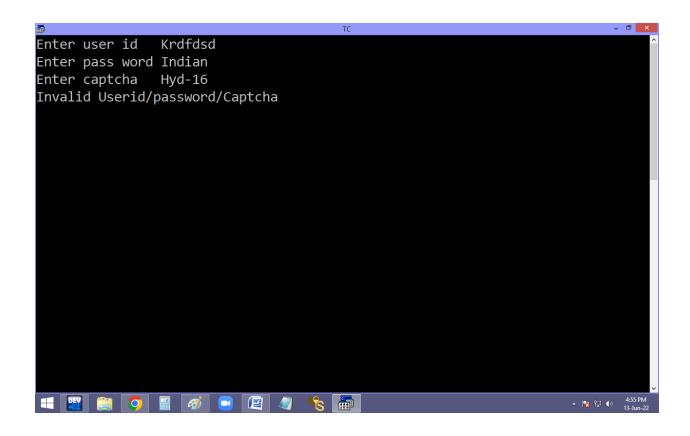


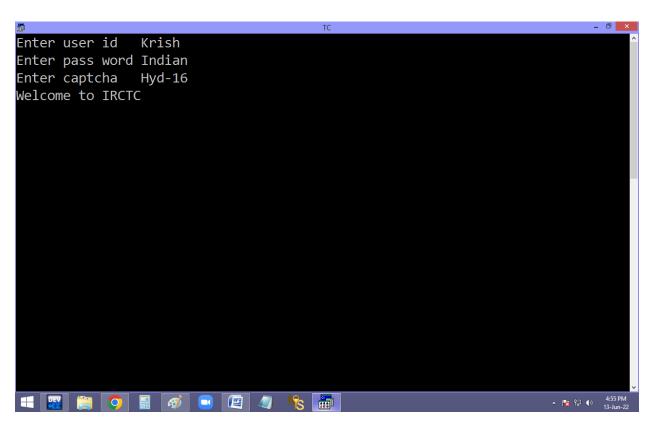


**Net Banking Login:** 

```
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   File Edit Run Compile Project Options Debug Break/watch
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                Col 1
      Line 1
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
char user[20], pass[20], cap[20]; clrscr();
printf("Enter user id "); scanf("%s",user);
printf("Enter pass word "); scanf("%s",pass);
printf("Enter captcha "); scanf("%s", cap);
if(strcmp(user,"Krish")==0&&strcmp(pass,"Indian")==0&& strcmp(cap,"Hyd-16")==0)
puts("Welcome to IRCTC");
else puts("Invalid Userid/password/Captcha");
getch();
                                                                 ▲ 🙀 😭 🐠 4:54 PM
13-Jun-22
```



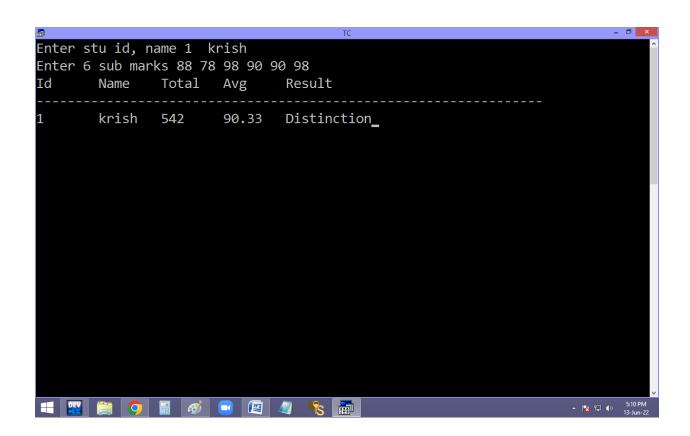




```
Eg. Read a stu id, name, 6 sub marks and find
the stu total, avg and grade [Distinction / 1st
class / 2<sup>nd</sup> / 3<sup>rd</sup> / Fail ]
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
char id[20], name[20], result[20];
int tel, eng, hin, mat, sci, soc,tot;
float avg;
clrscr();
printf("Enter stu id, name ");
scanf("%s %s",id, 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/6.0;
if(tel>=35&&eng>=35&&hin>=35&&mat>=35&
&sci>=35&&soc>=35)
if(avg>=75)strcpy(result,"Distinction");
else if(avg>=60)strcpy(result,"1st class");
else if(avg>=50)strcpy(result,"2nd class");
else strcpy(result,"3rd class");
else strcpy(result,"Fail");
puts("Id\tName\tTotal\tAvg\tResult");
```

```
puts("------
-----");
printf("%s\t%s\t%d\t%.2f\t%s",id,name,tot,av
g,result);
getch();
}
```

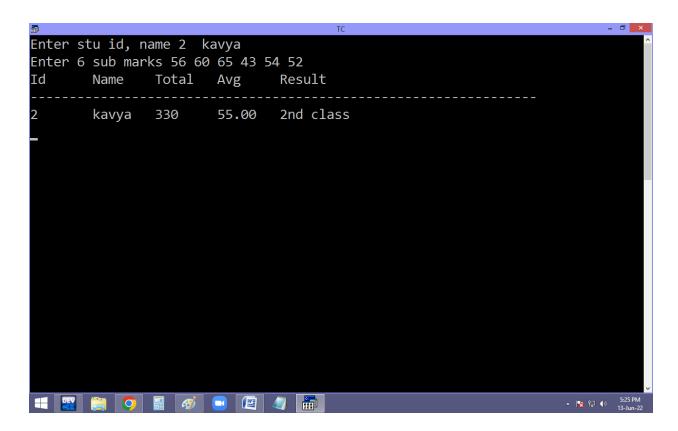


## Without using strcpy():

```
#include<stdio.h>
#include<conio.h>
void main()
{
char id[20], name[20];
int tel, eng, hin, mat, sci, soc,tot;
```

```
float avg;
clrscr();
printf("Enter stu id, name ");
scanf("%s %s",id, 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/6.0;
puts("Id\tName\tTotal\tAvg\tResult");
puts("-----
----');
printf("%s\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("1st class");
else if(avg>=50)puts("2nd class");
else puts("3rd class");
}
else puts("Fail");
getch();
}
```



## **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:**

<u>condition</u>? <u>true statement</u>: <u>false statement</u>;

exp1/op1 exp2/op2 exp3/op3

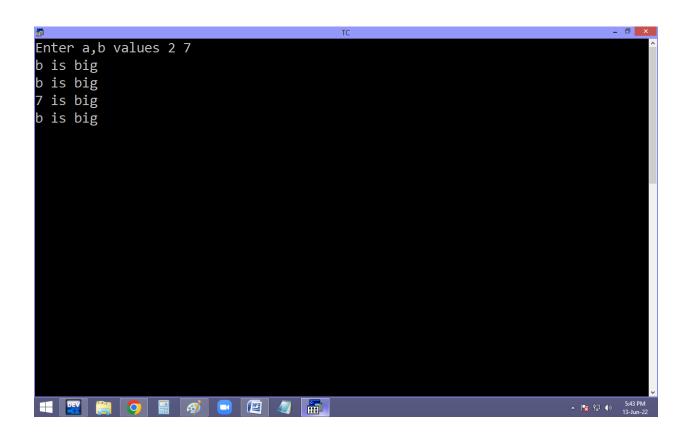
If condition true, statement after ? executed.

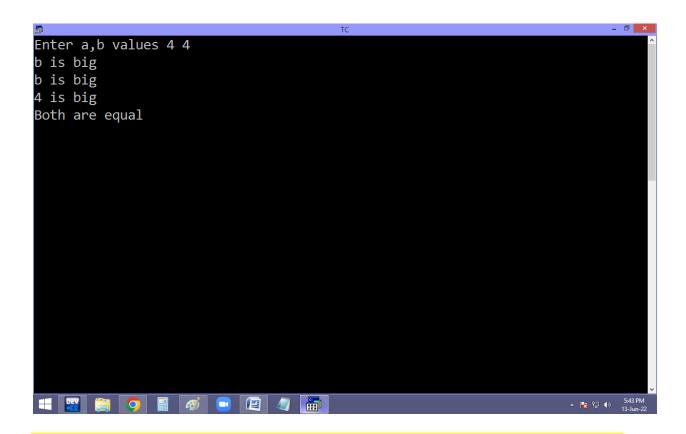
If condition false, statement after: is executed.

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

Eg:Finding big in two no's using ternary operator.

```
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  File Edit Run Compile Project Options Debug Break/watch
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     Line 12
#include<stdio.h>
#include<conio.h>
void main()
int a,b;
clrscr();
printf("Enter a,b values "); scanf("%d %d",&a, &b);
puts(a>b?"a is big":"b is big");
a>b?puts("a is big"): puts("b is big");
printf("%d is big\n", a>b ?a : b);
puts(a>b?"a is big" : b>a?"b is big":"Both are equal");
getch();
                                                               ▲ 🔽 🗐 🌓) 5:43 PM
13-Jun-22
```





Eg. finding even/odd using ternary operator.

```
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Line 8 Col 24 Insert Indent Tab Fill Unindent * E:NONAME.C

#include<stdio.h>
#include<conio.h>
void main()
{
int n;
clrscr();
printf("Enter n value "); scanf("%d",&n);
puts(n%2?"Odd":"Even");
getch();
}
```

