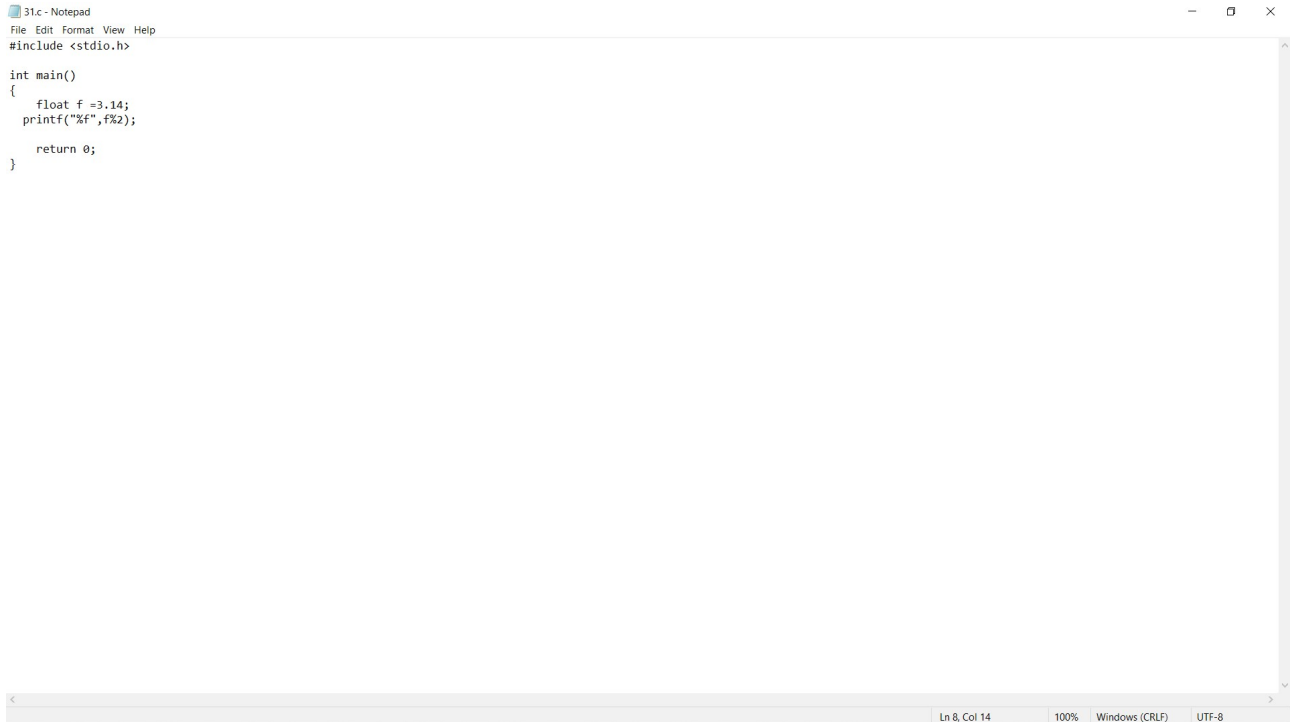


# OPERATORS

## lab 3 by Swaminathan Navinashok 2019115126

31.

```
#include<stdio.h>
int main()
{float f =3.14;
 printf("%f",f%2);
}
```

A screenshot of a Notepad window titled "31.c - Notepad". The window contains the same C code as the previous block. The status bar at the bottom indicates "Ln 8, Col 14", "100%", "Windows (CRLF)", and "UTF-8".

```
31.c - Notepad
File Edit Format View Help
#include <stdio.h>

int main()
{
    float f =3.14;
    printf("%f",f%2);

    return 0;
}
```

```
navin@DESKTOP-74TDP9AJ:~  
navin@DESKTOP-74TDP9AJ:~$ gcc 31.c -o 31  
31.c: In function 'main':  
31.c:6:16: error: invalid operands to binary % (have 'float' and 'int')  
6 | printf("%f",f%2);  
  |                ^  
navin@DESKTOP-74TDP9AJ:~$
```

Meeting in "General" 01:06:42

AP

Windows taskbar with various application icons and system tray icons.

32.

```
#include<stdio.h>
```

```
int main()
```

```
{printf("%d",'A');
```

```
}
```

32c - Notepad

File Edit Format View Help

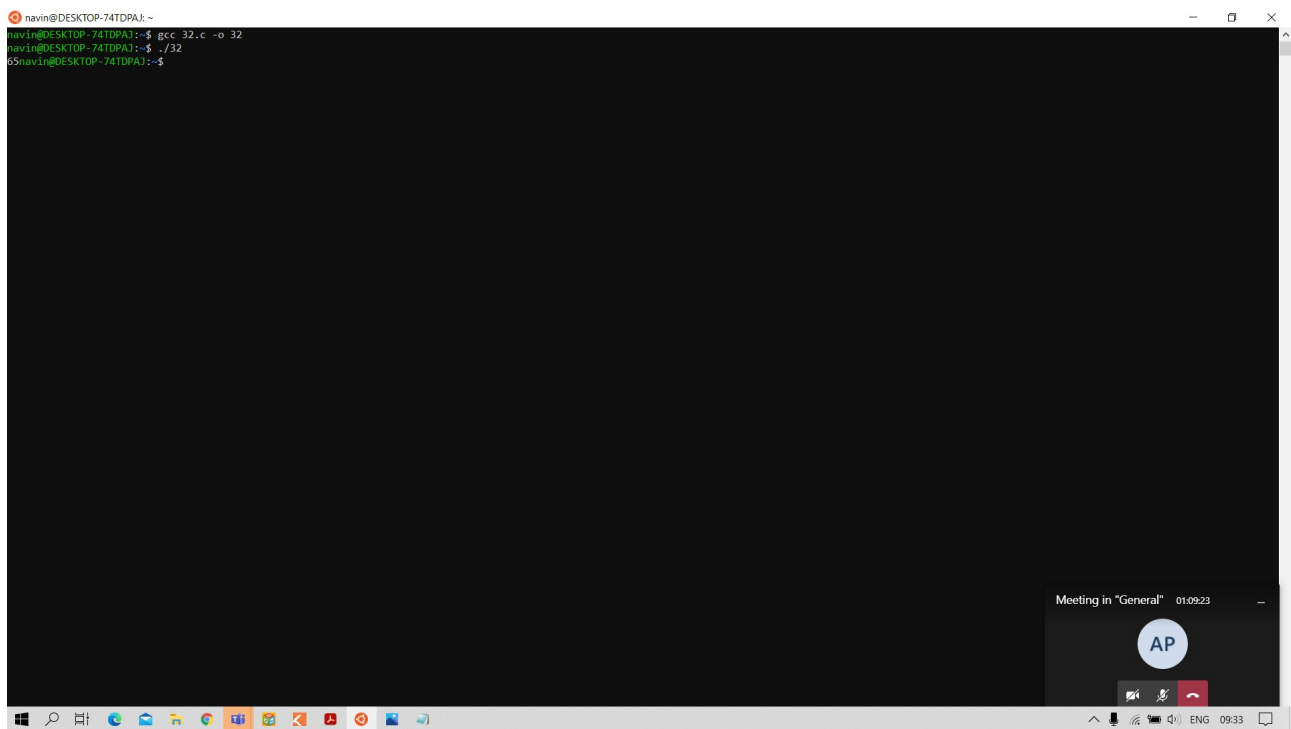
```
#include <stdio.h>
```

```
int main()
```

```
{
```

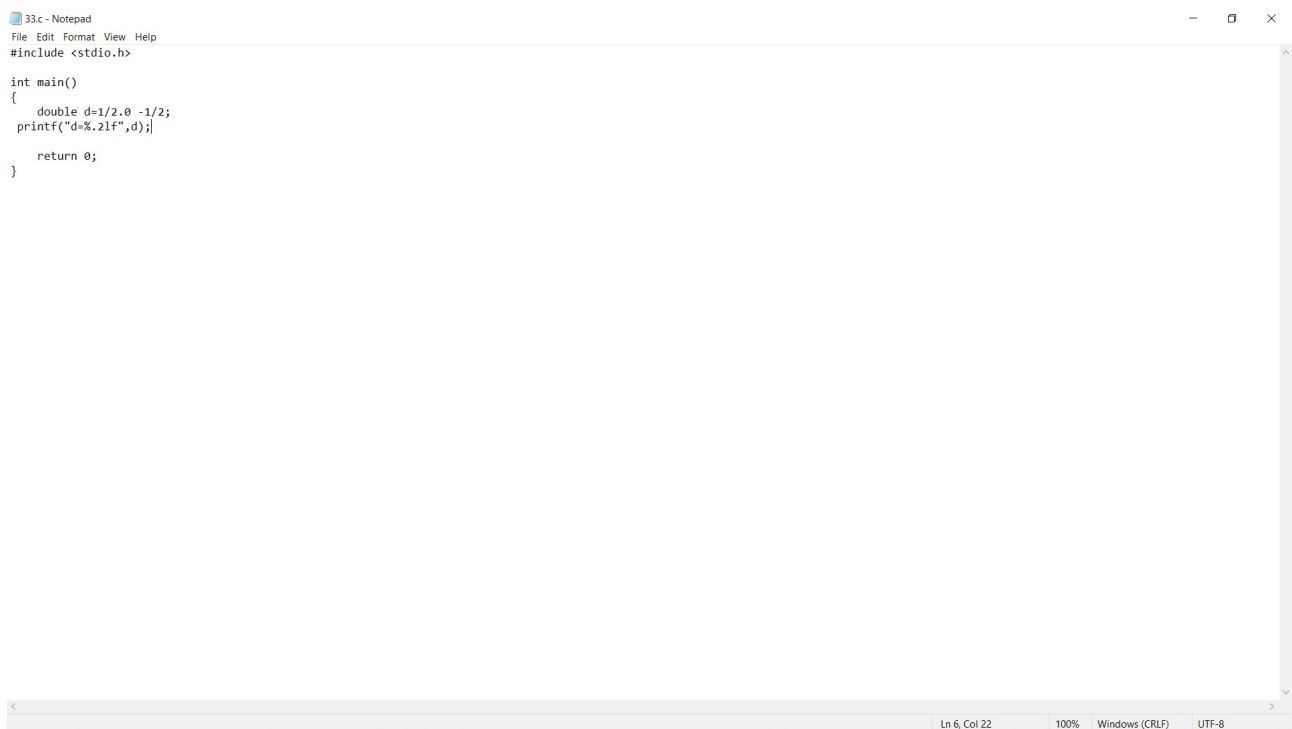
```
printf("%d",'A');return 0;
```

```
}]
```

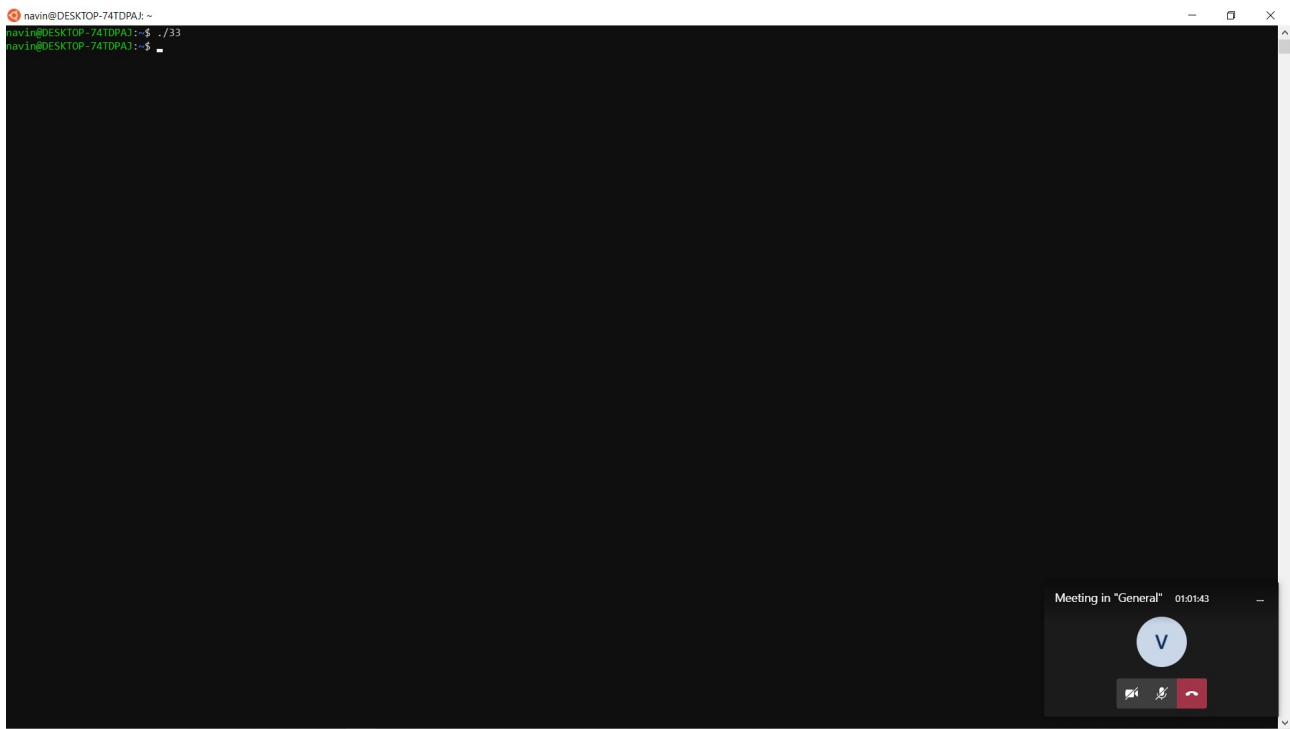


33.

```
#include<stdio.h>
int main()
{ double d=1/2.0 -1/2;
  printf("d=%.2lf",d);
}
```

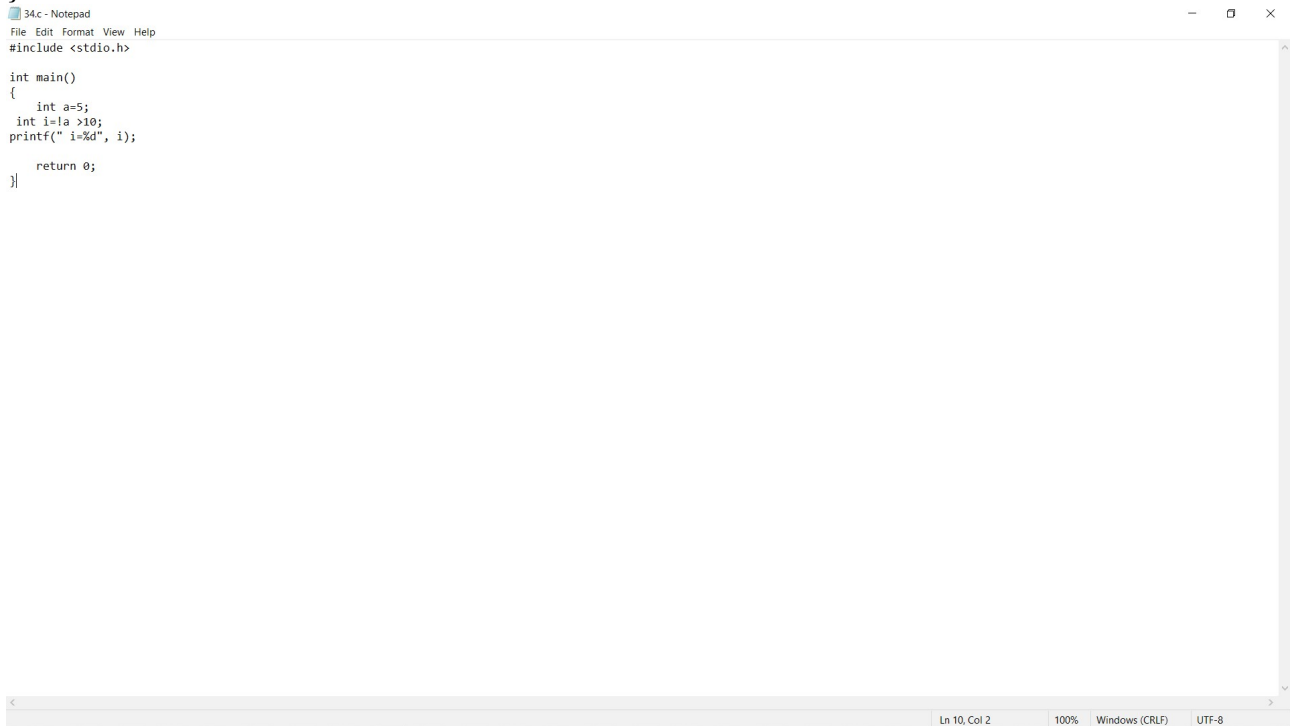




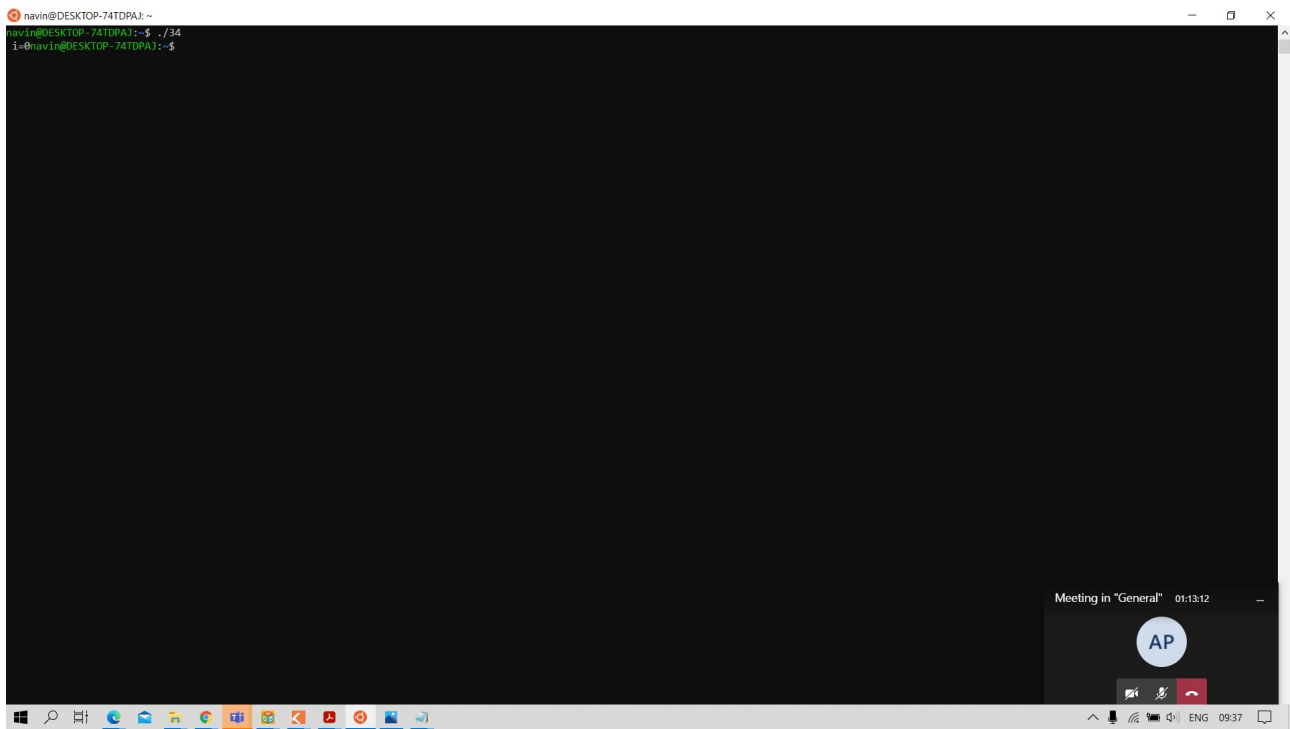


34.

```
#include<stdio.h>
int main()
{ int a=5;
  i=!a >10
  printf(" i=%d", i);
}
```







35.

```
#include<stdio.h>
```

```
int main()
```

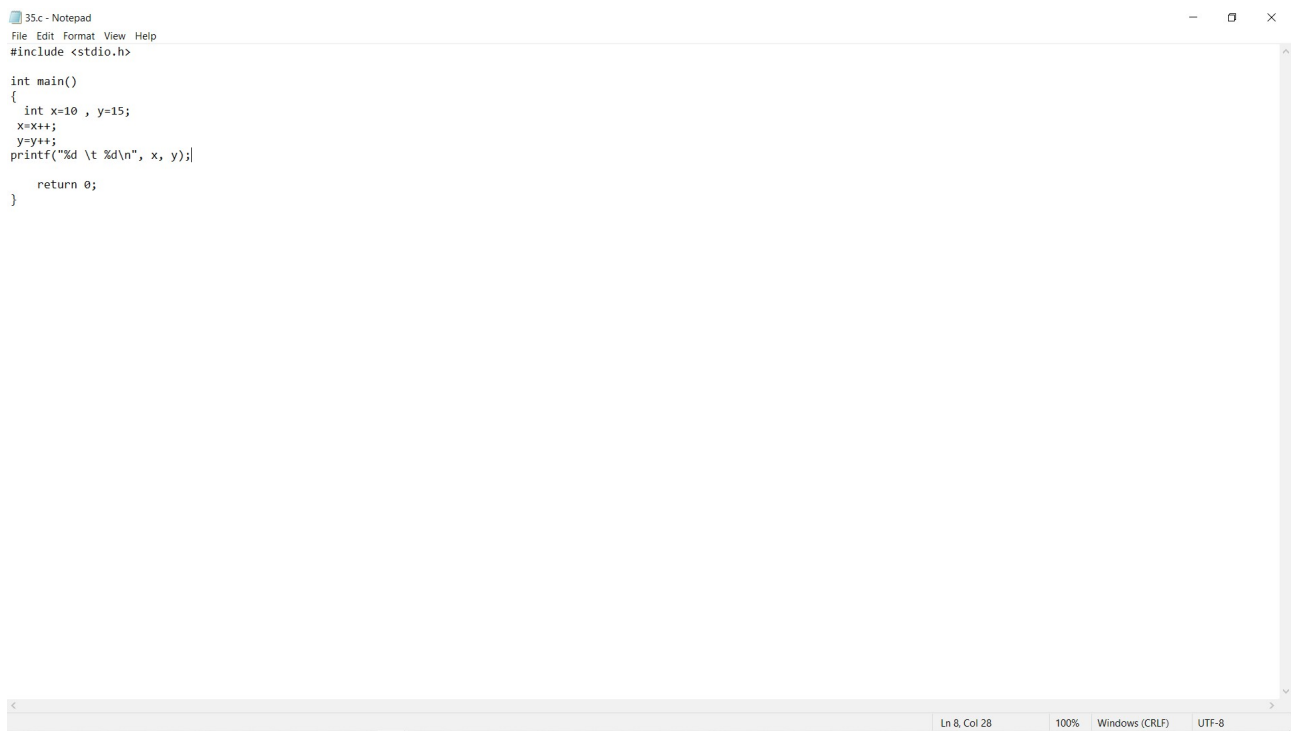
```
{ int x=10 , y=15;
```

```
  x=x++;
```

```
  y=y++;
```

```
  printf("%d \t %d\n", x, y);
```

```
}
```



```
35c - Notepad
File Edit Format View Help
#include <stdio.h>

int main()
{
    int x=10 , y=15;
    x=x++;
    y=y++;
    printf("%d \t %d\n", x, y);
    return 0;
}
```

Ln 8, Col 28 100% Windows (CRLF) UTF-8



```
navin@DESKTOP-74TDPAJ: ~  
navin@DESKTOP-74TDPAJ:~$ ./35  
10      15  
navin@DESKTOP-74TDPAJ:~$
```

36.

```
#include<stdio.h>  
int main()  
{ int x=5,z=7;  
printf("x= %d",x--);  
z=5;  
printf("x = %d \t z = %d \n", x, z--);  
  
}
```

```
36c - Notepad  
File Edit Format View Help  
#include <stdio.h>  
  
int main()  
{  
    int x=5,z=7;  
    printf("x= %d",x--);  
    z=5;  
    printf("x = %d \t z = %d \n", x, z--);  
  
    return 0;  
}
```

```
navin@DESKTOP-74TDPA3: ~  
navin@DESKTOP-74TDPA3:~$ ./36  
x= 5x = 4      z = 5  
navin@DESKTOP-74TDPA3:~$
```

Meeting in "General" 01:23:27

AP

Windows taskbar icons: File Explorer, Edge, Chrome, VS Code, etc.

37.

```
#include<stdio.h>  
int main()  
{ printf("%d" , ++(x+y));  
  
}
```

37.c - Notepad

File Edit Format View Help

```
#include <stdio.h>  
  
int main()  
{int x=2,y=3;  
    printf("%d" , ++(x+y));  
    return 0;  
}
```

Ln 11, Col 2 | 100% | Windows (CRLF) | UTF-8



```
navin@DESKTOP-74TDPRAJ:~$ gcc 37.c -o 37
37.c: In function 'main':
37.c:8:18: error: lvalue required as increment operand
   8 |     printf("%d", ++(x+y));
     |                   ^~
navin@DESKTOP-74TDPRAJ:~$
```

Meeting in "General" 01:14:19

AP

38.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int x, y, z;
```

```
    x = 5;
```

```
    y = 8;
```

```
    z = ++x + y++;
```

```
    printf("%d \t %d \t %d \n", x, y, z);
```

```
    return 0;
```

```
}
```

```
38c - Notepad
File Edit Format View Help
#include <stdio.h>

int main()
{
    int x, y, z;
    x = 5;
    y = 8;
    z = ++x + y++;
    printf("%d \t %d \t %d \n", x, y, z);

    return 0;
}
```

```
navin@DESKTOP-74TDP4J: ~
navin@DESKTOP-74TDP4J:~$ ./38
5      9      14
navin@DESKTOP-74TDP4J:~$
```

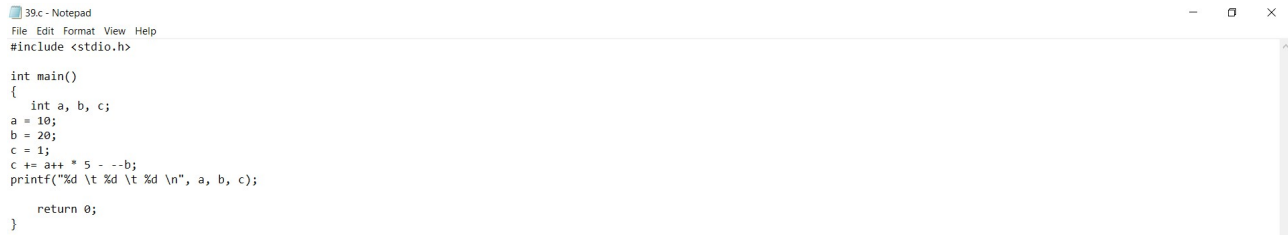
39.

```
#include <stdio.h>
```

```
int main()
{
    int a, b, c;
    a = 10;
    b = 20;
    c = 1;
    c += a++ * 5 - --b;
```

```
printf("%d \t %d \t %d \n", a, b, c);

return 0;
}
```



A screenshot of a Notepad window titled "39c - Notepad". The menu bar includes "File", "Edit", "Format", "View", and "Help". The text area contains the following C code:

```
#include <stdio.h>

int main()
{
    int a, b, c;
    a = 10;
    b = 20;
    c = 1;
    c += a++ * 5 - --b;
    printf("%d \t %d \t %d \n", a, b, c);

    return 0;
}
```



A screenshot of a terminal window titled "navin@DESKTOP-74TDPA3: ~". The prompt is "navin@DESKTOP-74TDPA3:~\$". The user has entered the command ". /39". The output shows the values of a, b, and c after execution: "11 19 32". The prompt is now "navin@DESKTOP-74TDPA3:~\$". In the bottom right corner, there is a small overlay for a "Meeting in 'General'" with a timer at "01:03:07" and icons for microphone, video, and chat.

```
310.
#include<stdio.h>
int main()
{
    int a;;

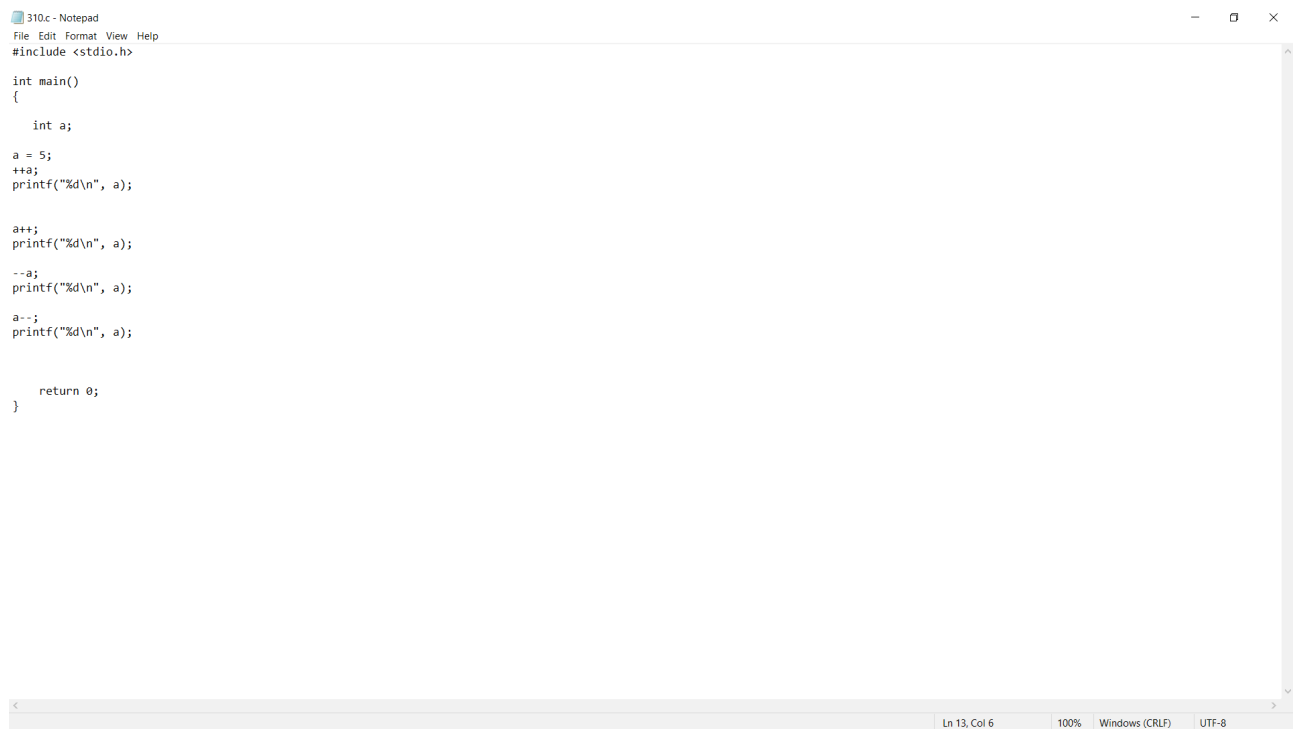
a = 5
++a;
printf("%d\n", a);

a++;
```

```
printf("%d\n", a);
```

```
--a;  
printf("%d\n", a);
```

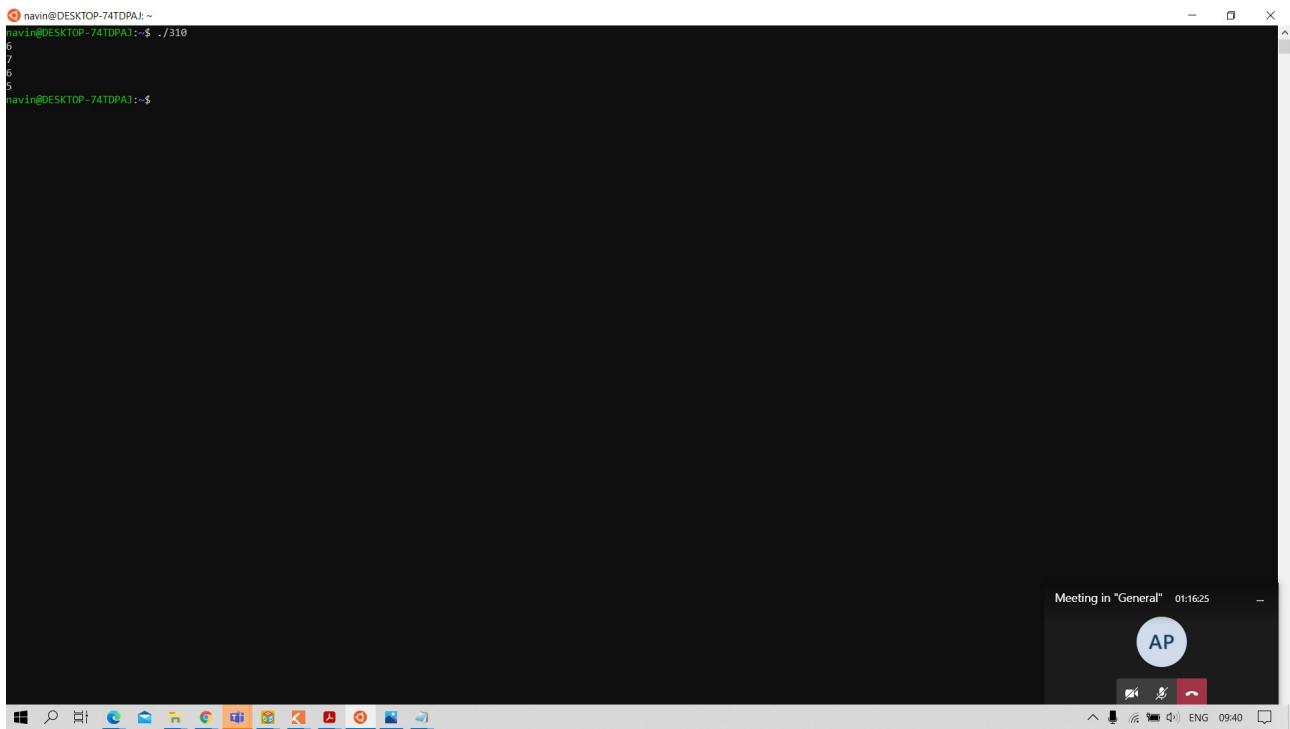
```
a--;  
printf("%d\n", a);  
return 0;  
}
```



A screenshot of a Notepad window titled "310c - Notepad". The window contains C code for a program that demonstrates pointer arithmetic. The code is as follows:

```
File Edit Format View Help  
#include <stdio.h>  
  
int main()  
{  
    int a;  
  
    a = 5;  
    ++a;  
    printf("%d\n", a);  
  
    a++;  
    printf("%d\n", a);  
  
    --a;  
    printf("%d\n", a);  
  
    a--;  
    printf("%d\n", a);  
  
    return 0;  
}
```

The status bar at the bottom of the window shows "Ln 13, Col 6", "100%", "Windows (CRLF)", and "UTF-8".



311)

```
#include "stdio.h"
```

```
int main()
```

```
{
```

```
    int x, y = 5, z = 5;
```

```
    x = y == z;
```

```
    printf("%d", x);
```

```
    getchar();
```

```
    return 0;
```

```
}
```



```
311.c - Notepad
File Edit Format View Help
#include "stdio.h"
int main()
{
    int x, y = 5, z = 5;
    x = y == z;
    printf("%d", x);

    getchar();
    return 0;
}
```

```
navin@DESKTOP-74TDPA3: ~
navin@DESKTOP-74TDPA3:~$ ./311
1a
navin@DESKTOP-74TDPA3:~$
```

312)

```
#include <stdio.h>
```

```
int main()
```

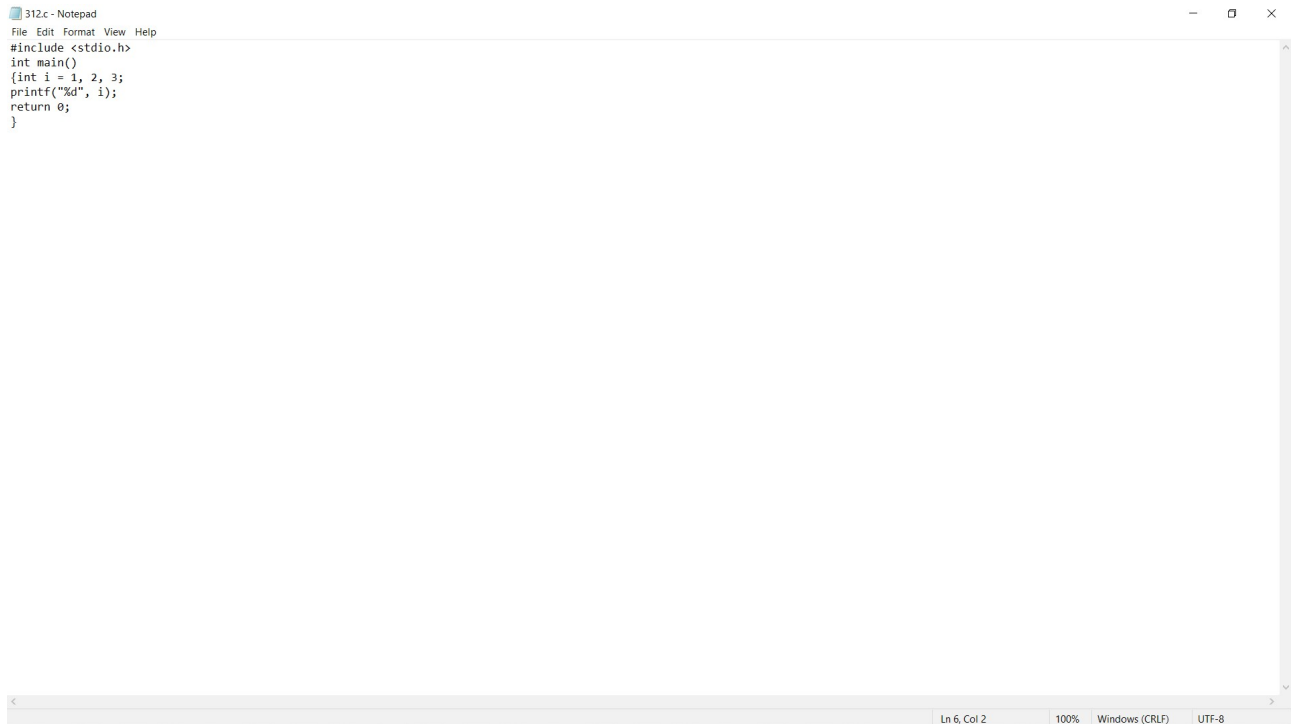
```
{
```

```
int i = 1, 2, 3;
```

```
printf("%d", i);
```

```
return 0;
```

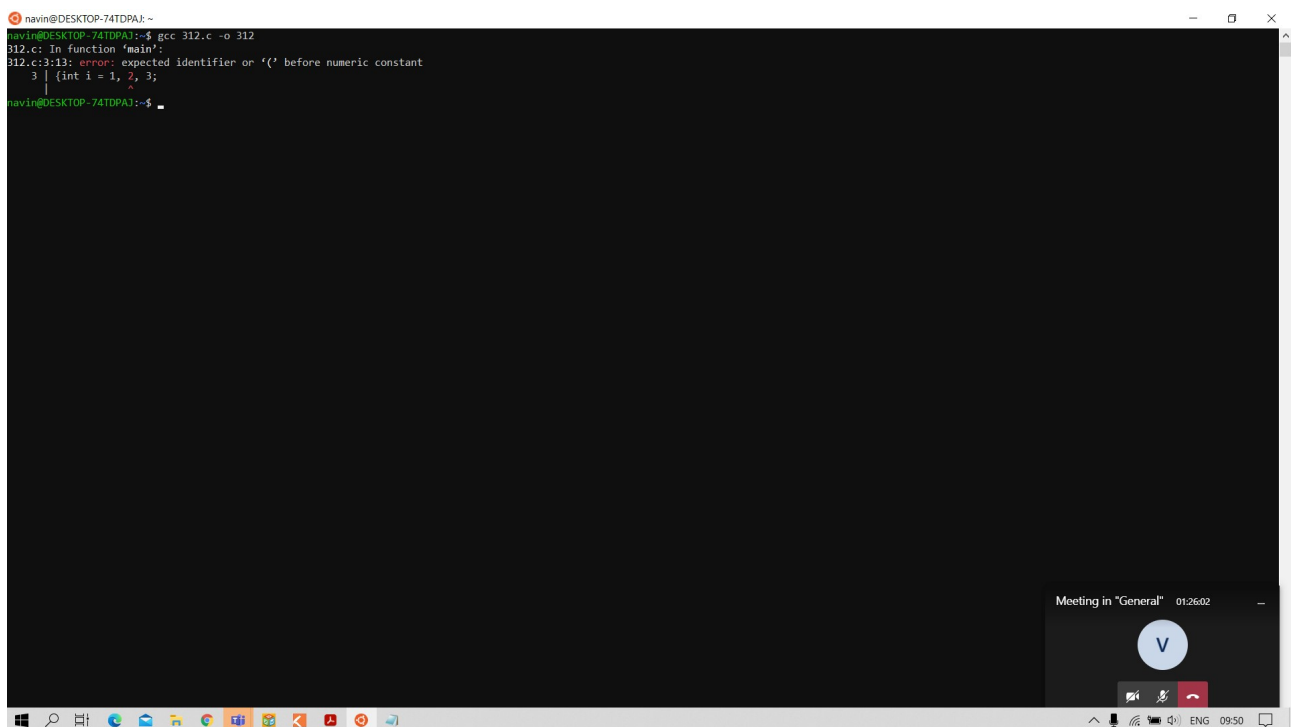
```
}
```



A screenshot of a Notepad window titled "312.c - Notepad". The menu bar includes File, Edit, Format, View, and Help. The text area contains the following C code:

```
#include <stdio.h>
int main()
{int i = 1, 2, 3;
 printf("%d", i);
 return 0;
}
```

The status bar at the bottom indicates "Ln 6, Col 2", "100%", "Windows (CRLF)", and "UTF-8".



A screenshot of a terminal window with the title bar "navin@DESKTOP-74TDP3: ~". The terminal shows the following commands and output:

```
navin@DESKTOP-74TDP3:~$ gcc 312.c -o 312
312.c: In function 'main':
312.c:3:13: error: expected identifier or '(' before numeric constant
   3 | {int i = 1, 2, 3;
     |             ^
navin@DESKTOP-74TDP3:~$
```

The terminal window has a dark background. In the bottom right corner, there is a small overlay for a "Meeting in 'General'" with a timer at "01:26:02" and a blue circle containing a white 'V'. The Windows taskbar is visible at the bottom of the screen.

313

```
#include <stdio.h>
```

```
int main()
```

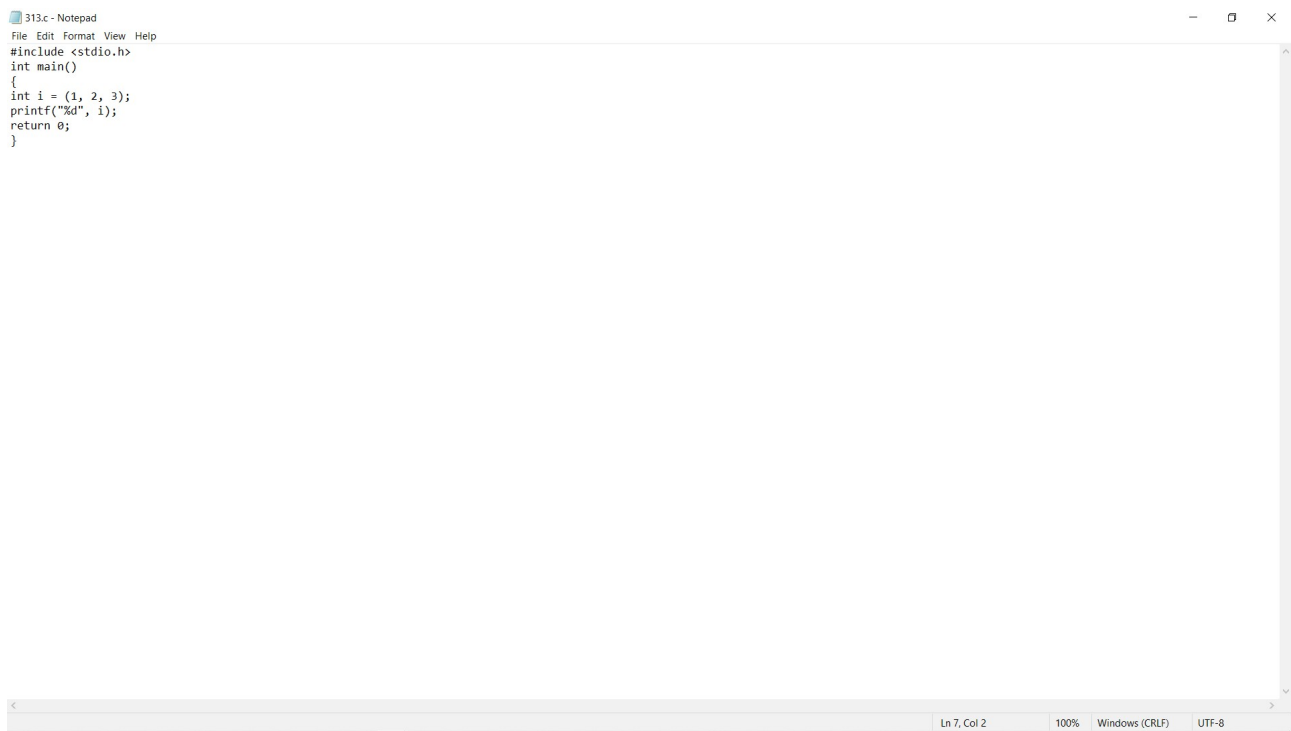
```
{
```

```
    int i = (1, 2, 3);
```

```
    printf("%d", i);
```

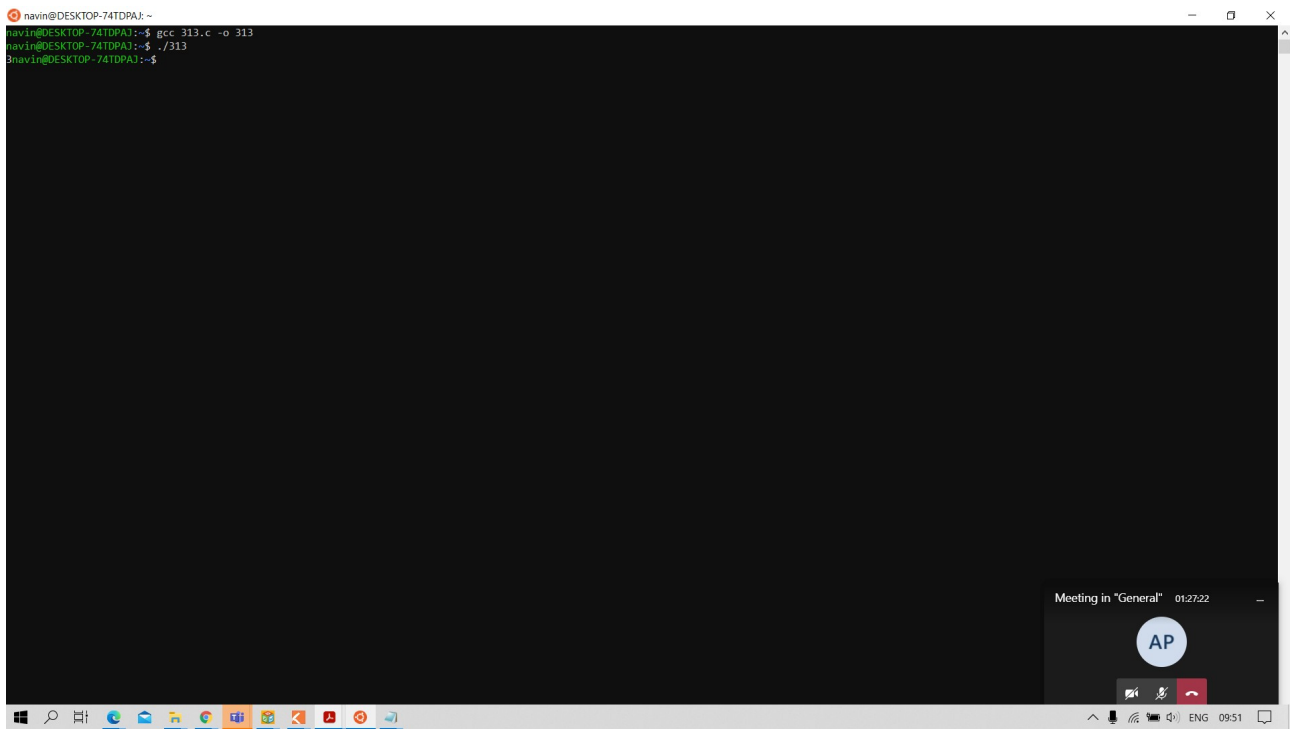
```
    return 0;
```

```
}
```



```
313.c - Notepad
File Edit Format View Help
#include <stdio.h>
int main()
{
    int i = (1, 2, 3);
    printf("%d", i);
    return 0;
}
```

Ln 7, Col 2 100% Windows (CRLF) UTF-8



314)

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int i = 3;
```

```
    printf("%d", (++i)++);
```

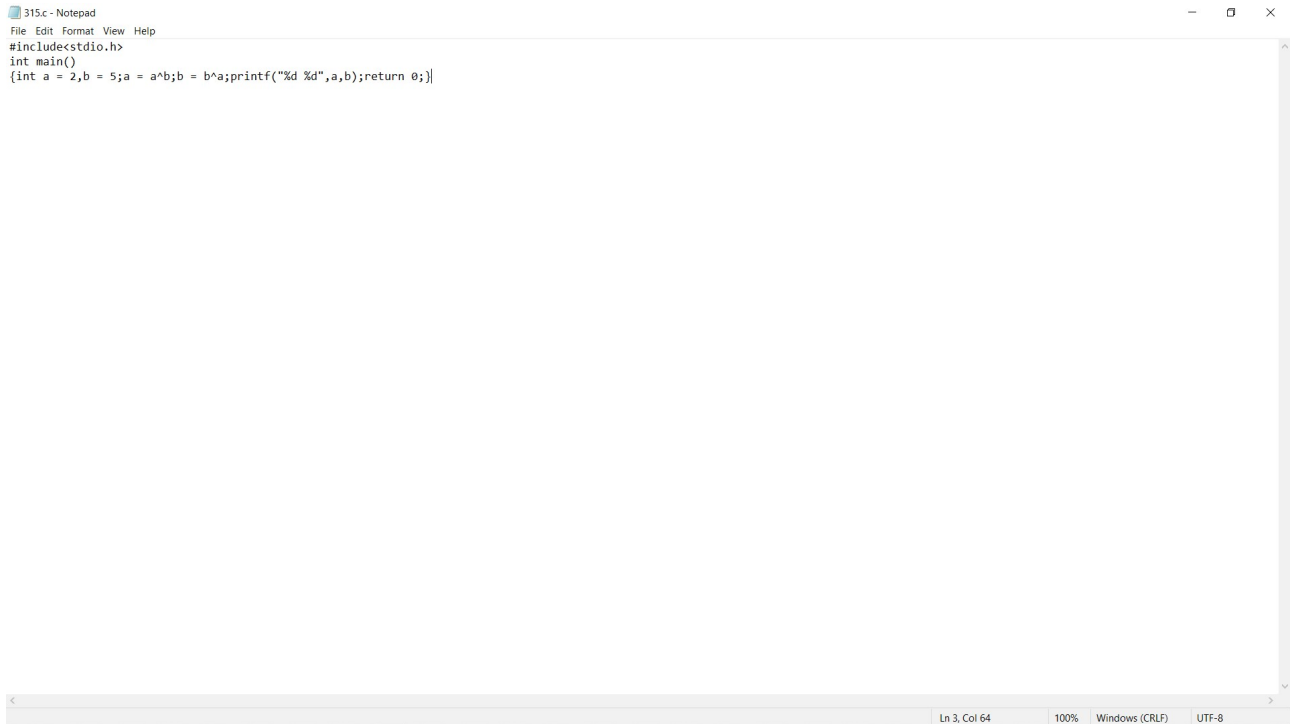
```
    return 0; }
```

```
314.c - Notepad
File Edit Format View Help
#include<stdio.h>
int main()
{int i = 3;
printf("%d", (++i));
return 0;
}
```

```
navin@DESKTOP-74TDP43: ~
navin@DESKTOP-74TDP43:~$ gcc 314.c -o 314
314.c: In function 'main':
314.c:4:19: error: lvalue required as increment operand
    4 | printf("%d", (++i));
      |               ^~
navin@DESKTOP-74TDP43:~$
```

```
315)
#include<stdio.h>
int main()
{
```

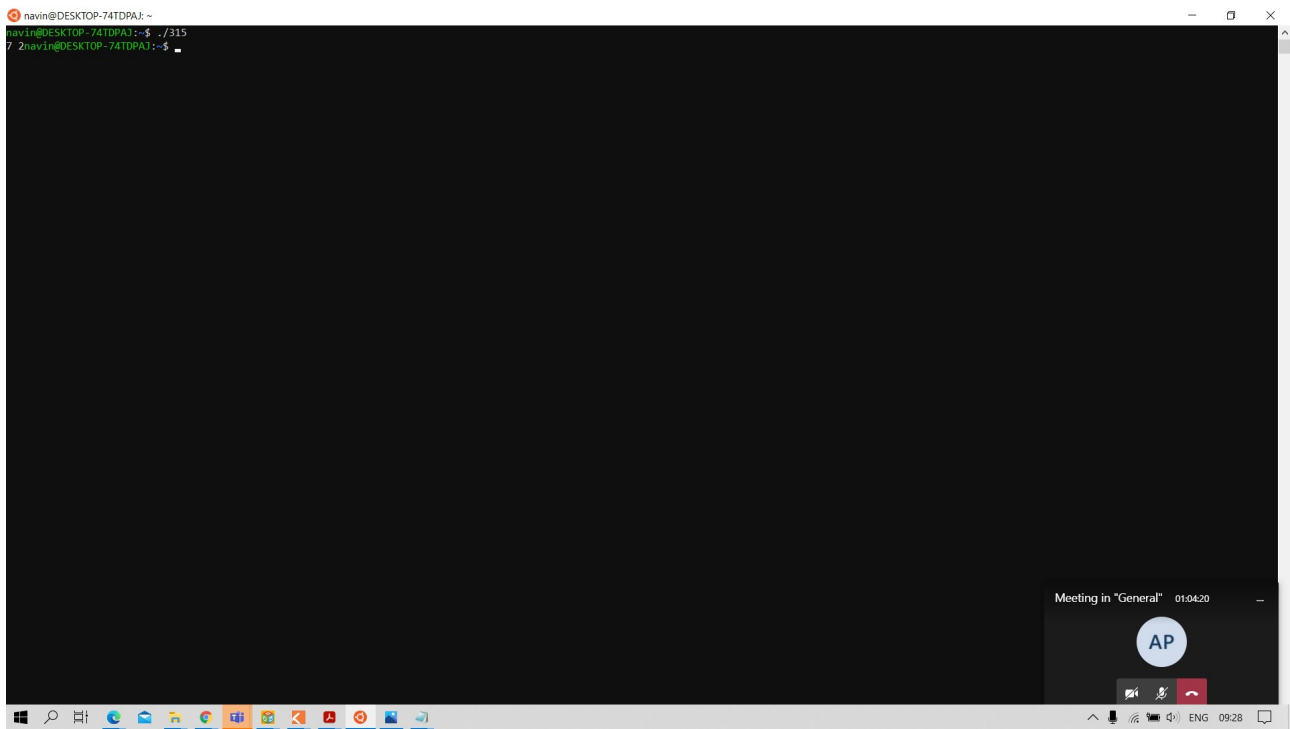
```
int a = 2,b = 5;  
a = a^b;  
b = b^a;  
printf("%d %d",a,b);  
return 0;  
}
```



A screenshot of a Notepad window titled "315.c - Notepad". The window has a menu bar with "File", "Edit", "Format", "View", and "Help". The text area contains the following C code:

```
#include<stdio.h>  
int main()  
{int a = 2,b = 5;a = a^b;b = b^a;printf("%d %d",a,b);return 0;}
```

The status bar at the bottom indicates "Ln 3, Col 64", "100%", "Windows (CRLF)", and "UTF-8".



316)

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int a = 10, b = 20, c = 30;
```

```
    if (c > b > a)
```

```
        printf("TRUE");
```

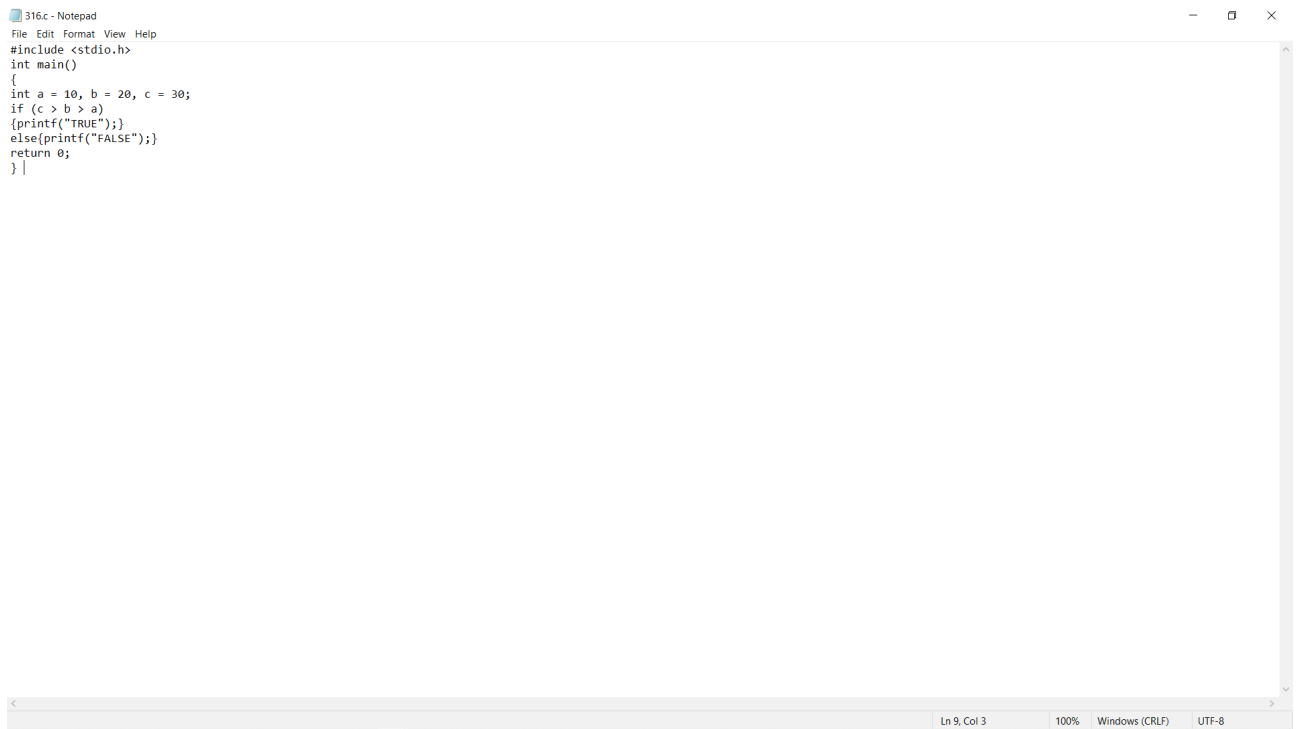
```
    else
```

```
        printf("FALSE");
```

```
    return 0;
```

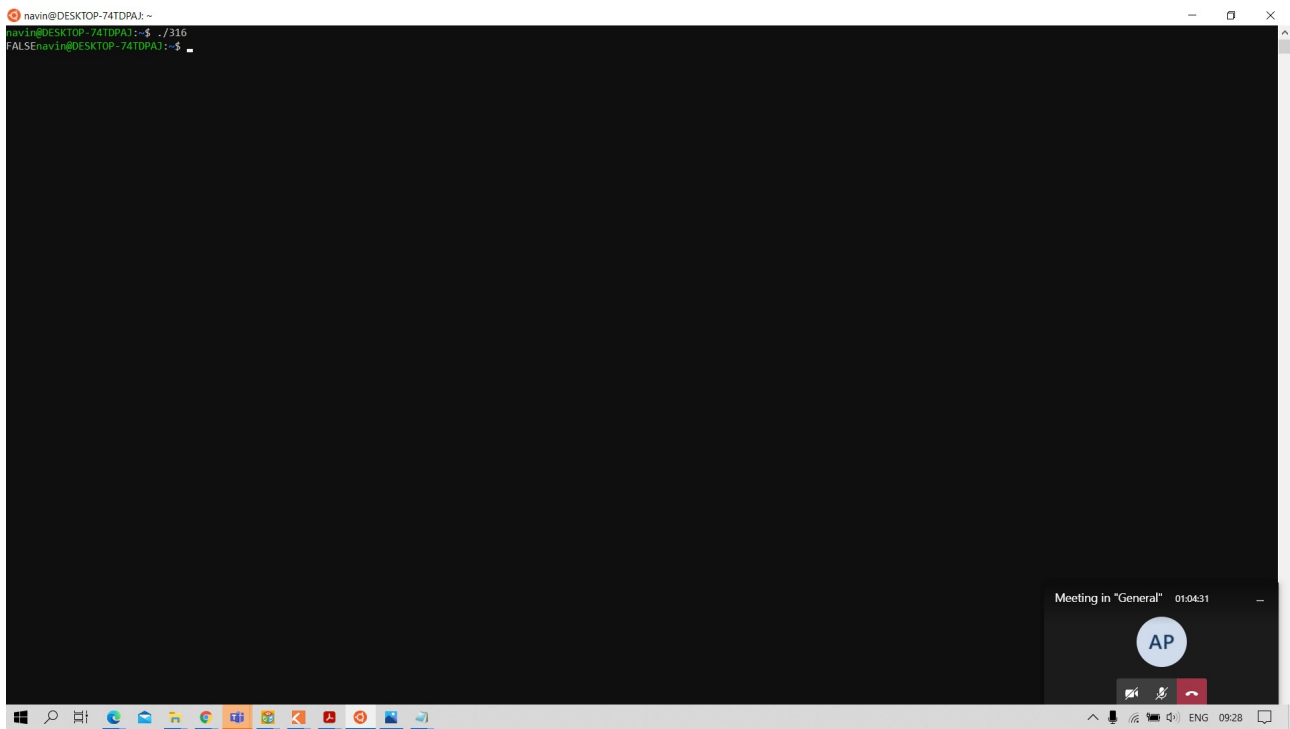
```
}
```





```
316.c - Notepad
File Edit Format View Help
#include <stdio.h>
int main()
{
    int a = 10, b = 20, c = 30;
    if (c > b > a)
    {printf("TRUE");}
    else{printf("FALSE");}
    return 0;
} |
```

Ln 9, Col 3 100% Windows (CRLF) UTF-8



317)

```
#include<stdio.h>
```

```
int main(void)
```

```
{
```

```
    int a = 1;
```

```
    int b = 0;
```

```
    b = a++ + a++;
```

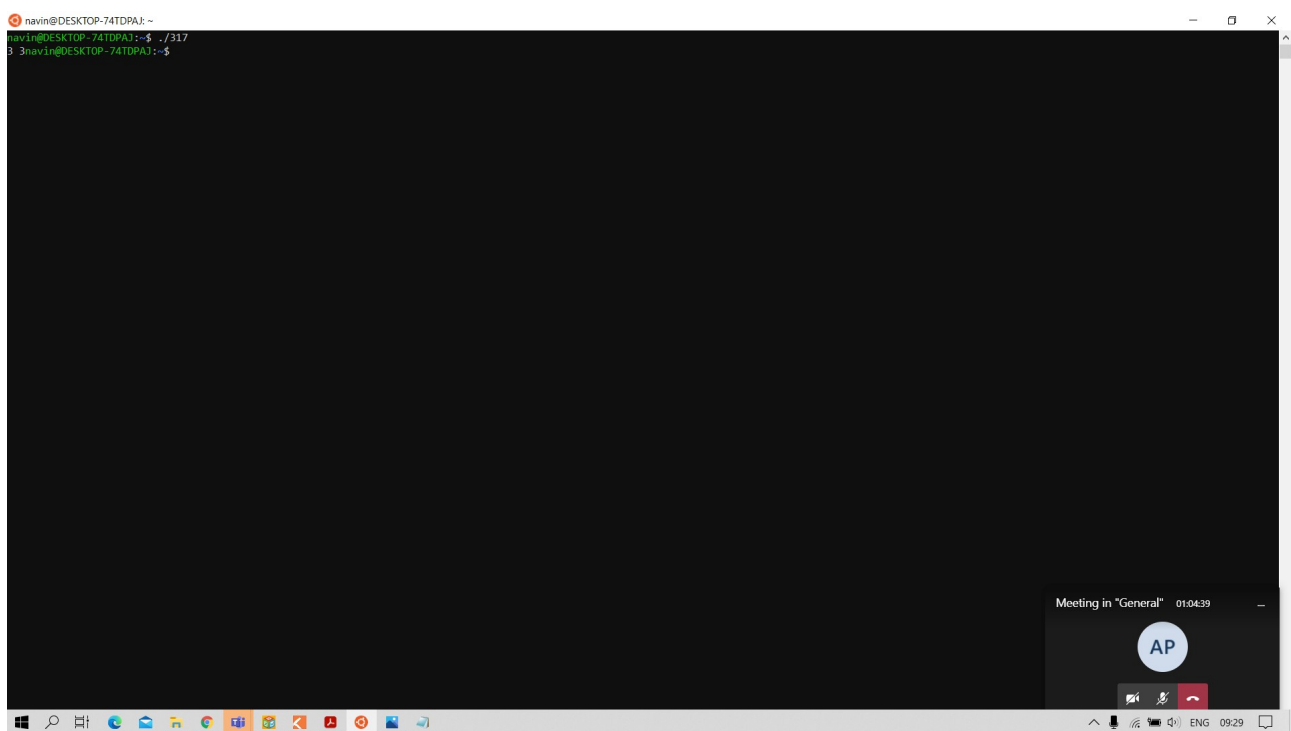
```
    printf("%d %d",a,b);
```

```
    return 0;
```

```
}
```

```
317.c - Notepad
File Edit Format View Help
#include<stdio.h>
int main(void)
{
    int a = 1;
    int b = 0;
    b = a++ + a++;
    printf("%d %d",a,b);
    return 0;
}
```

Ln 2, Col 15 100% Windows (CRLF) UTF-8

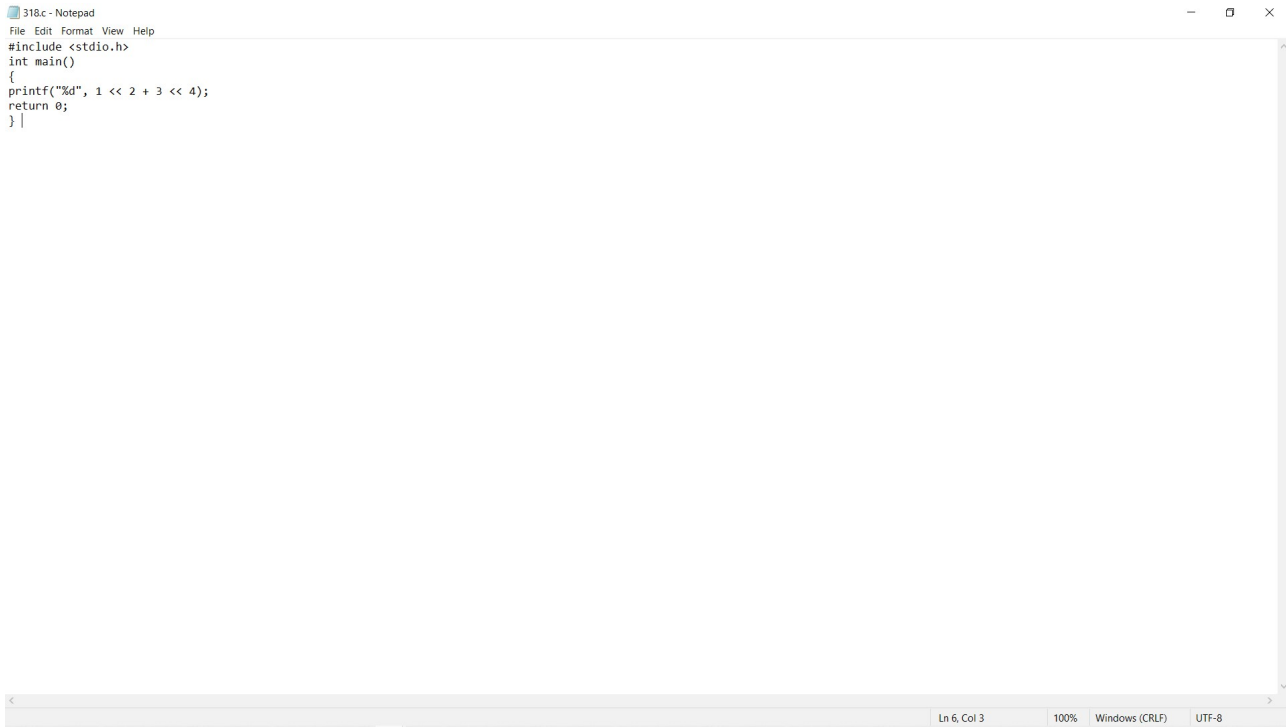


318)

```
#include <stdio.h>
```

```
int main()
```

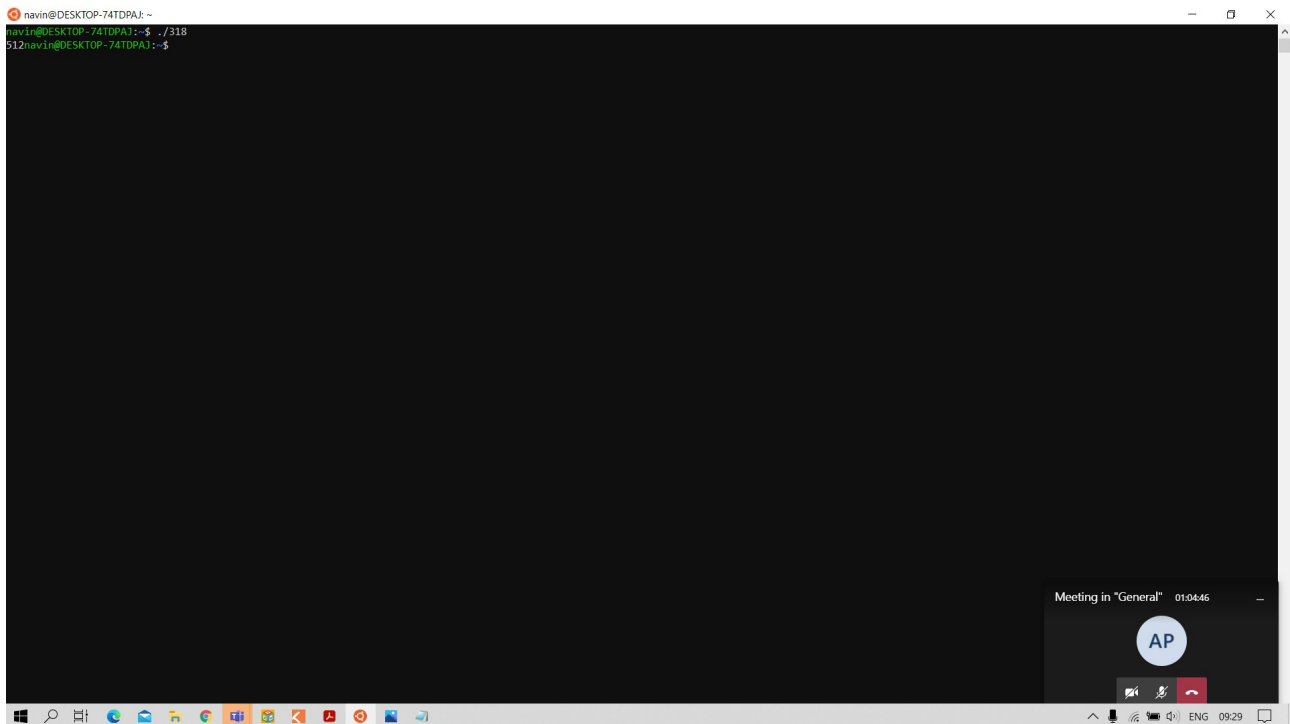
```
{  
    printf("%d", 1 << 2 + 3 << 4);  
    return 0;  
}
```



A screenshot of a Notepad window titled "318.c - Notepad". The window contains the following C code:

```
File Edit Format View Help  
#include <stdio.h>  
int main()  
{  
    printf("%d", 1 << 2 + 3 << 4);  
    return 0;  
}
```

The status bar at the bottom indicates "Ln 6, Col 3", "100%", "Windows (CRLF)", and "UTF-8".



319)

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i = 5, j = 10, k = 15;
```

```
    printf("%d ", sizeof(k /= i + j));
```

```
    printf("%d", k);
```

```
    return 0;
```

```
}
```

319.c - Notepad

File Edit Format View Help

```
#include <stdio.h>
```

```
int main()
```

```
{int i = 5, j = 10, k = 15;
```

```
printf("%ld ", sizeof(k /= i + j));
```

```
printf("%d", k);
```

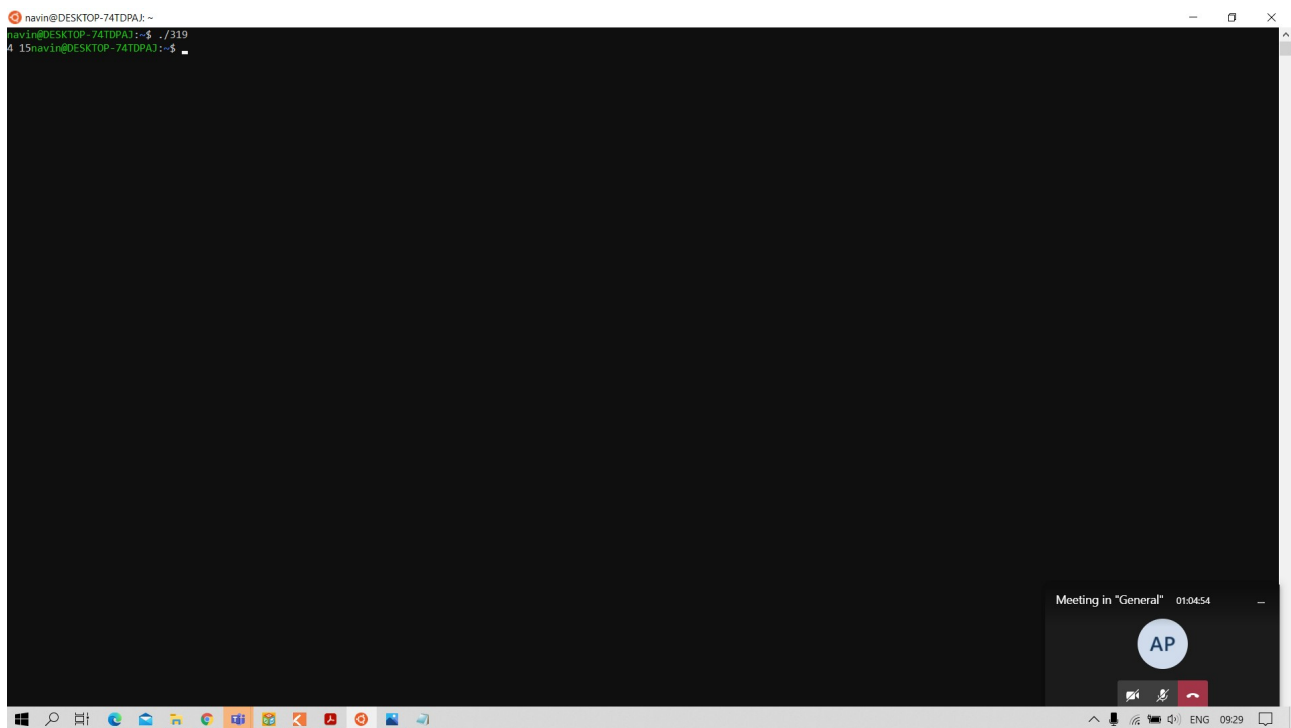
```
return 0;}
```

Ln 5, Col 17

100%

Windows (CRLF)

UTF-8



320)

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int a = 0;
```

```
    int b;
```

```
    a = (a == (a == 1));
```

```
    printf("%d", a);
```

```
    return 0;
```

```
}
```

```
320.c - Notepad
File Edit Format View Help
#include <stdio.h>
int main()
{
    int a = 0;
    int b;
    a = (a == (a == 1));
    printf("%d", a);
    return 0;} |
```

Ln 8, Col 12 100% Windows (CRLF) UTF-8

