```
_ 🗇 ×
                Run Compile Project Options
  File Edit
                                                   Debug Break/watch
                Col 3
                        Insert Indent Tab Fill Unindent * E:2PM.C
     Line 16
#include<stdio.h>
#include<conio.h>
void main()
int a=5, b;
clrscr();
b = a++ + a++ + a++;
printf("a=%d, b=%d\n",a,b);
a=5;
b = ++a + ++a + ++a;
printf("a=%d, b=%d",a,b);
getch();
/* a=8 b=15
  a=8 b=24
_____ △ 😼 🗓 📶 (b) 2:20 PM
a=5
                                       a=5
b=a++ + a++ + a++;
                                       b= ++a + ++a + ++a;
priority: +, =, a++
                                       priority: ++a, + =
1. b = a+a+a ==> 5+5+5
                                       1. ++a ==> a=6, ++a==>a=7, ++a==> a=8
2. b = 15
                                       2. b= a+a+a ==> 8+8+8
3. a++==> a=6, a++==> a=7, a++==> a=8
                                       3. b=24
```

```
Edit
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                                                       Break/watch
               Col 13 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 15
#include<stdio.h>
#include<conio.h>
void main()
int a=5, b;
clrscr();
b = ++a + a++ * ++a;
printf("a=%d, b=%d\n",a,b);
a=5;
b = ++a + a-- + --a + a++;
printf("a=%d, b=%d",a,b);
getch();
/* a=8 b=56
  a=5 b=20
2:30 PA
                                a=5
 a=5
                                b = ++a + a-- + --a + a++;
 b=++a + a++ * ++a;
                                priority: ++a, --a, +, =, a++, a--
 priority: ++a, *, +, =, a++
                                1. ++a==>a=6
 1. ++a==>a=6, ++a==?a=7
                                2. --a==>a=5
 2. b=a+a*a; ==> 7+7*7
                                3. b = a+a+a+a==> 5+5+5+5
 3. b = 7+49
                                4. b=20
 4. b = 56
 5. a++==>a=8
                                6. a-- ==> a=5
```

Operator precedence

(PRIORITY OF OPERATORS)

1. ()

- 2. +, -, ! (sign operators, unary operators)
- 3. ++, -- (pre increment & decrement)
- 4. *,/,%
- 5. +, (Binary)
- 6. = =, !=
- 7. &&
- 8. ||
- 9. ?: (ternary operator)
- 10. =
- 11. ++, -- (Post increment & decrement)
- 12. , (comma)

```
Compile Project Options
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              Col 14 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 12
#include<stdio.h>
#include<conio.h>
void main()
int a=9, b=1;
clrscr();
a = a++ + ++b;
b = ++a + b++;
printf("a=%d, b=%d\n",a,b);
getch();
/* a=13 b=16_*/
```

```
a=9, b=1

a = a++ + ++b;

priority: ++b, +, =, a++

1. ++b ==> b=2

2. a = a + b ==> 9+2

3. a=11

4. a++ ==> a=12
```

```
a=12, b=2

b = ++a + b++

priority: ++a, +, =, b++

1. ++a ==> a=13

2. b = a + b ==> 13 + 2

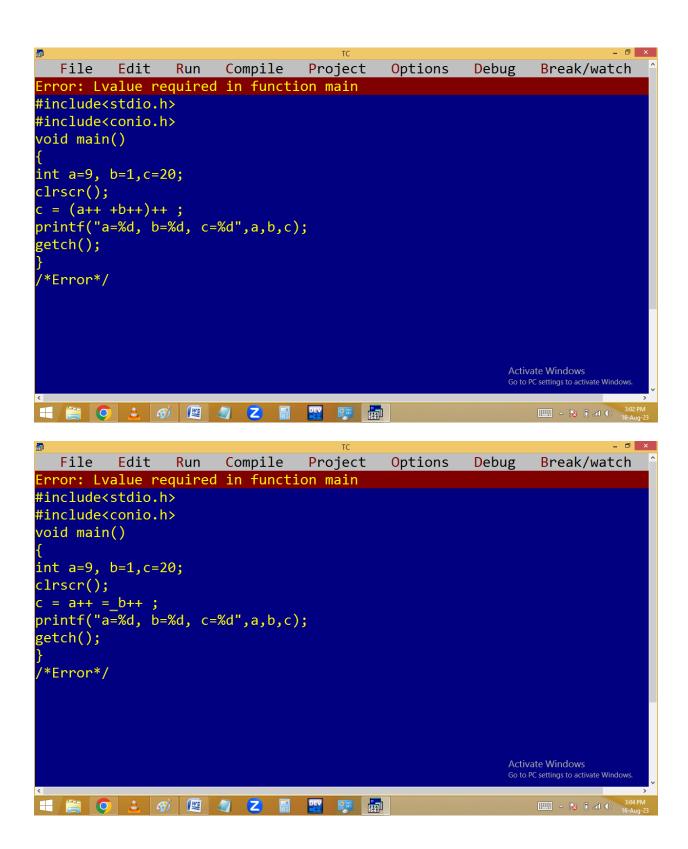
3. b = 15

4. b++ ==> b=16
```

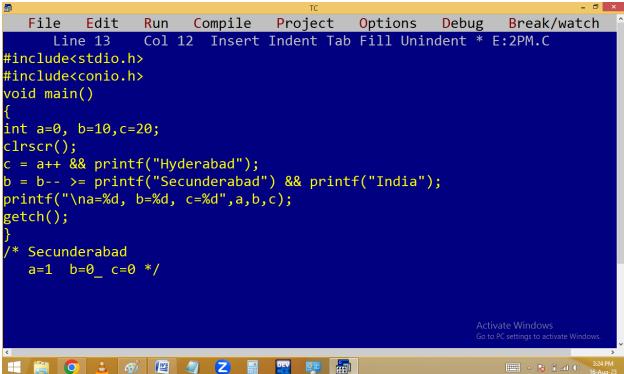
```
Run
                   Compile Project Options
                                            Debug Break/watch
              Col 19 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=9, b=1,c=20;
clrscr();
c = a+++b;
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
/* a=10 b=1, c=10 */
2:46 PN
```

```
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  File Edit
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    Line 7
#include<stdio.h>
#include<conio.h>
void main()
int a=9, b=1,c=20;
clrscr();
c = a+++b++; /* a++ + b++*/
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
/* a=10 b=1, c=10 */
2:56 PM
a=10, b=2, c=10
△ 🖟 🗈 ail (b) 2:56 PM
```

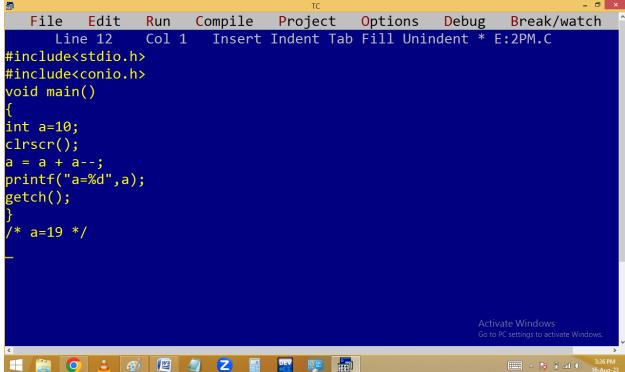
```
Run
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             Col 9
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=9, b=10,c=20;
clrscr();
c = a++ >= b-- ;
printf("a=%d, b=%d, c=%d",a,b,c);
getch();
/* a=10 b=9 c=0 */
```



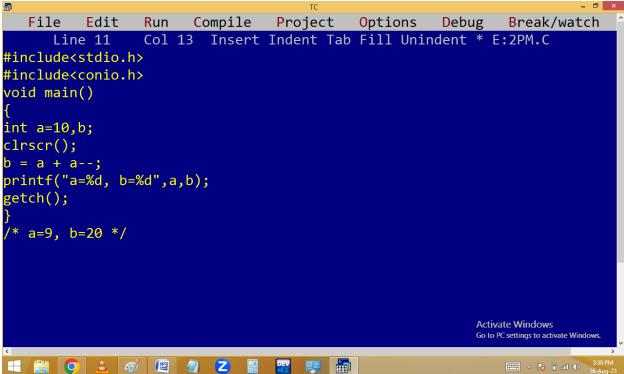
```
File Edit
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                      Compile Project Options
                                                  Debug
                                                          Break/watch
                Col 28 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 7
#include<stdio.h>
#include<conio.h>
void main()
int a=9, b=10,c=20;
clrscr();
c = a++ >= printf("Hyderabad");
b = b-- >= printf("Secunderabad");
printf("\na=%d, b=%d, c=%d",a,b,c);
getch();
/* HyderabadSecunderabad
  a=10 b=-1 c=1 */
                                                      Activate Windows
                                                      Go to PC settings to activate Windows.
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  File Edit Run Compile Project Options Debug Break/watch
     Line 13
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```



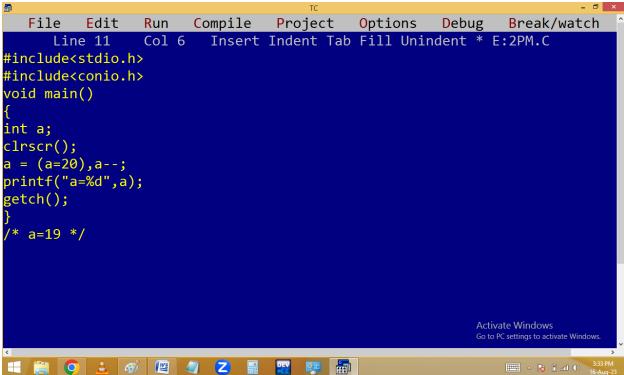
```
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     Line 8
#include<stdio.h>
#include<conio.h>
void main()
int a=0, b=10,c=20;
clrscr();
c = a++ && printf("Hyderabad");
b = --b >= printf("Secunderabad") && printf("India");
printf("\na=%d, b=%d, c=%d",a,b,c);
getch();
/* Secunderabad
  a=1 b=0 c=0 */
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                                                      File Edit Run Compile Project Options Debug Break/watch
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               Col 1
```



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    Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=10;
clrscr();
a = a + --a;
printf("a=%d",a);
getch();
/* a=18 */
File Edit Run Compile Project Options Debug Break/watch
```



```
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                   Compile Project Options Debug Break/watch
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     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=10,b;
clrscr();
b = a + --a;
printf("a=%d, b=%d",a,b);
getch();
/* a=9, b=18 */
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     Line 11
              Col 6
```



```
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Line 8 Col 14 Insert Indent Tab Fill Unindent * E:2PM.C

#include<stdio.h>
#include<conio.h>
void main()
{
int a,b;
clrscr();
b = (a=20),a--;
printf("a=%d, b=%d",a,b);
getch();
}
/* a=19, b=20 */

Activate Windows
Go to PC settings to activat
```

```
File Edit
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                Col 12 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 14
#include<stdio.h>
#include<conio.h>
void main()
int a=100;
clrscr();
a++/2;
printf("a=%d\n",a);
++a/2;
printf("a=%d",a);
getch();
/* a=101
   a=102 */_
△ 🗽 🗈 📶 (b) 3:37 PM
  a=100
  a++/2;
  priority: /, a++
  1. a/2==>100/2=50[ 50 not stored in a because of = not used i.e. a=100 ]
  2. a++ ==> a=101
  ++a/2
  priority: ++a, /
  1. ++a ==> a=102
  2. a/2 ==> 102/2=51 [ 51 not stored in a because of = not used i.e. a=102]
  a=102
```

```
Edit
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                                                       Break/watch
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                      Insert Indent Tab Fill Unindent * E:2PM.C
     Line 14
#include<stdio.h>
#include<conio.h>
void main()
int a=100;
clrscr();
a=a++/2;
printf("a=%d\n",a);
a=++a/2;
printf("a=%d",a);
getch();
/* a=51
  a=26_*/
△ 😿 🗈 and (b) 3:41 Pl
    a = 100
```