```
File Edit Run Compile Project Options Debug Break/watch
                Col 13 Insert Indent Tab Fill Unindent * E:4PMNET.C
      Line 15
#include<stdio.h>
#include<conio.h>
void main()
int a=2,b;
clrscr();
b=a++ + a++ + a++;
printf("a=%d, b=%d\n", a, b );
a=2;
b=++a + ++a + ++a;
printf("a=%d, b=%d\n", a, b );
getch();
/* a=5, b=8
   a=5, b=15 */
4:21 PM
 a=2
                                          a=2
 b= a++ + a++ + a++;
                                           b= ++a + ++a + ++a;
 priority: +, =, a++
                                          priority: ++a, +, =
 1. b = a + a + a = > 2 + 2 + 2
                                          1. ++a==>a=3, ++a==>a=4, ++a==>a=5
 2. b = 6
                                          2. b = a+a+a ==> 5+5+5
 3. a++=>a=3, a++==>a=4, a++==>a=5
                                          3. b = 15
```

```
Run
                     Compile Project Options Debug Break/watch
                       Insert Indent Tab Fill Unindent * E:4PMNET.C
     Line 15
               Col 7
#include<stdio.h>
#include<conio.h>
void main()
int a=2,b;
clrscr();
b=++a + a++ * ++a;
printf("a=%d, b=%d\n", a, b );
a=2:
b=++a + a++ + a-- + --a;
printf("a=%d, b=%d\n", a, b );
getch();
/* a=5, b=20
  a=2, b=8 */
                                                        Activate Windows
        4:28 I (ε) 4:28 I (ε) 16-Δια
 a=2
                                    a=2
 b = ++a + a++ * ++a;
                                    b = ++a + a++ + a-- + --a;
 priority: ++a, *, +, =, a++
                                    priority: ++a, --a, +, =, a++, a--
 1. ++a ==>a=3, ++a==> a=4
                                    1. ++a ==> a=3
 2. b = a + a * a ==> 4 + 4*4
                                    2. --a ==> a=2
 3. b = 4 + 16 = > 20
                                    3. b = a + a + a + a ==> 2+2+2+2
 4. b = 20
                                    4. b = 8
 5. a++==> a=5
                                    5. a++==>a=3
                                    6. a-- ==> a=2
```

Operator precedence

(PRIORITY OF OPERATORS)

- 1. ()
- 2. +, -, ! (sign operators, unary operators)

```
3. ++, -- (pre increment & decrement)
```

12. , (comma)

```
File Edit Run
                    Compile Project
                                     Options Debug Break/watch
               Col 8
                      Insert Indent Tab Fill Unindent * E:4PMNET.C
     Line 14
#include<stdio.h>
#include<conio.h>
void main()
int a=10;
clrscr();
a++/2;
printf("a=%d\n", a );
printf("a=%d", a );
getch();
* a=11
  a=12 */
  👸 🔘 👌 🐠 🙉 🗸 🔞 🔡 👺 🛅
                                                         4:36 F
  a=10
  a++/2;
  priority: /, a++
  1. a/2==>10/2=5[ 5 not stored because of = not used i.e. a=10]
  2. a++ ==>a=11
  p(a) ==> a=11
  ++a/2;
  priority: ++a, /
  1. ++a==> a=12
  2. a/2==>12/2==>6 [ 6 not stored because of = not used i.e. a=12 ]
  p(a) ==> a=12
```

```
File Edit Run Compile Project Options Debug Break/watch
     Line 14
            Col 7
                   Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
int a=10;
clrscr();
a=a++/2;
printf("a=%d\n", a );
a=++a/2;
printf("a=%d", a );
getch();
/* a=6
  a=3 */
4:47 PM
```

```
a=10

a=a++/2;

priority: /, =, a++

1. a=a/2==> 10/2=5

2. a=5

3. a++ ==> a=6

a=++a/2;

priority: ++a, /, =

1. ++a==> a=7

2. a=a/2 ==> 7/2=3

3. a=3
```

```
Edit Run
                 Compile Project
                                Options Debug Break/watch
                   Insert Indent Tab Fill Unindent * E:4PMNET.C
     Line 14
#include<stdio.h>
#include<conio.h>
void main()
int a=10;
clrscr();
printf("a=%d\n", a++/2 );
printf("a=%d\n", ++a/2 );
printf("a=%d",a);
getch();
/* a=5
  a=6
  a=12*/
                                               Activate Windows
4:53 P
  a = 10
  p("%d", a++/2); priority: /, printf, a++
  1. a/2==>10/2=5
  2. p(5) ==> 5 printed not stored i.e. a=10
  3. a++ ==> a=11
  p("%d",++a/2); priority:++a, /, printf
  1. ++a ==> a=12
  2. a/2==>12/2=6
```

3.p(6) ==> 6 not stored only printed i.e. a=12

```
File Edit Run Compile Project Options Debug Break/watch

Error: Lvalue required in function main

#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    printf("%d\n", 10++ );
    printf("%d\n", ++10 );
    getch();
}
/* 2 Errors */

Activate Windows
Go to PC settings to activate Windows.
```

a = 10

10++ ==> 10=10+1 ==> 10=11

10 is a constant and we can't change a constant

```
File Edit Run Compile Project Options Debug Break/watch

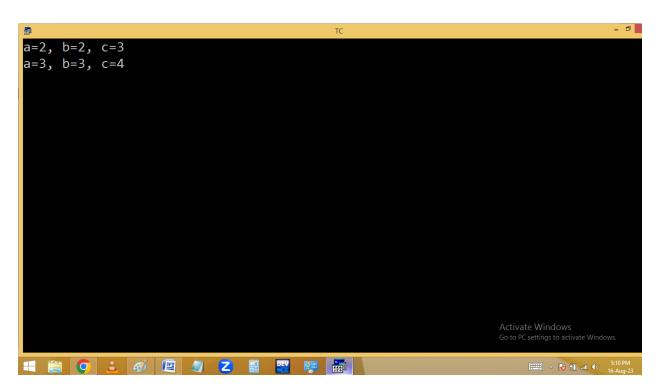
Line 12 Col 6 Insert Indent Tab Fill Unindent * E:4PMNET.C

#include<stdio.h>
#include<conio.h>
void main()
{
int a=-3;
clrscr();
printf("%d\n", a++ );
printf("%d\n", ++a );
getch();
}
/* -3
-1
*/

Activate Windows
Go to PC settings to activate Windows.
```

$$a=-3$$

```
File Edit Run Compile Project Options Debug Break/watch
 rror: Lvalue required in function main
#include<stdio.h>
#include<conio.h>
void main()
int a=1,b=2,c=10;
clrscr();
c = (a++ + b++)++;
printf("a=%d, b=%d, c=%d\n", a,b,c );
c = ++(++a + ++b);
printf("a=%d, b=%d, c=%d", a,b,c );
getch();
/*2 errors
Any expression result is constant. we can't perform ++/-- on constants st/
                                                    Activate Windows
- 16-Δug-
 File Edit Run Compile Project
                                    Options Debug Break/watch
     Line 13
              Col 1 Insert Indent Tab Fill Unindent * E:4PMNET.C
#include<stdio.h>
#include<conio.h>
void main()
int a=1,b=2,c=10;
clrscr();
c = a+++b;
printf("a=%d, b=%d, c=%d\n", a,b,c );
c = a+++b++;
printf("a=%d, b=%d, c=%d", a,b,c );
getch();
```



1.
$$c = a + b = > 1 + 2$$

$$2. c = 3$$

1.
$$c = a + b ==> 2+2$$

$$2. c = 4$$

```
File Edit Run Compile Project Options Debug Break/watch

Line 12 Col 17 Insert Indent Tab Fill Unindent * E:4PMNET.C

#include<stdio.h>
#include<conio.h>
void main()
{
int a=1,b=9;
clrscr();
a=a++ ++b;
b=++a + b++;
printf("a=%d, b=%d", a,b );
getch();
}
/* a=13, b=24 */

Activate Windows
Go to PC settings to activate Windows.
```

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

1. ++b ==> b=10

2. a = a + b ==> 1+10

3. a = 11

4. a++ ==> a=12

$$b = ++a + b++;$$

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

1. ++a ==> a=13

2. b = a + b = > 13+10

3. b=23

4. b++ ==> b=24

```
File Edit Run Compile Project Options Debug Break/watch
Line 11 Col 14 Insert Indent Tab Fill Unindent * E:4PMNET.C

#includexstdio.h>
#includexconio.h>
void main()
{

int a=11,b=12,c=20;

clrscr();

c = a++ >= b--;

printf("a=%d, b=%d, c=%d", a,b,c );

getch();
}

/* a=12, b=11, c=0 */

Activate Windows
Go to PC settings to activate Windows.
```

```
File Edit Run Compile Project Options Debug Break/watch

Line 12 Col 1 Insert Indent Tab Fill Unindent * E:4PMNET.C

#include<stdio.h>
#include<conio.h>
void main()
{

int a=7,b=12,c=20;

clrscr();

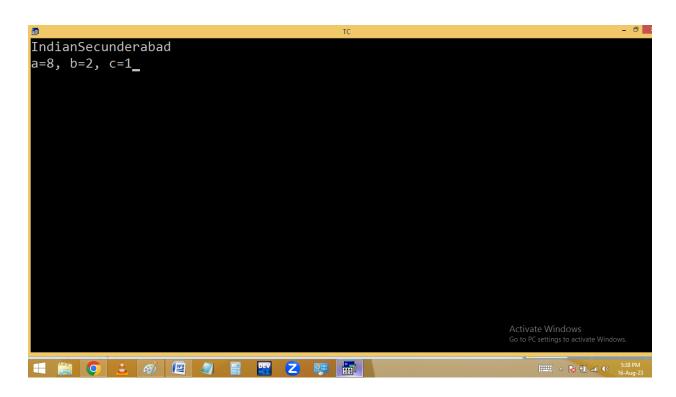
c = a++ >= printf("Indian");

b = b++ == printf("Secunderabad");

printf("\na=%d, b=%d, c=%d", a,b,c );

getch();
}

Activate Windows
Go to PC settings to activate Windows.
```



a=8 b=12 c=1

b = b++ == p("Secunderabad");

$$|z| = z$$

```
- 0
                                  Options Debug Break/watch
File Edit Run Compile Project
                    Insert Indent Tab Fill Unindent * E:4PMNET.C
     Line 10
              Col 7
#include<stdio.h>
#include<conio.h>
void main()
int a=1,b=0,c=20;
clrscr();
a = a-- && printf("Kishore");
b = b++ && printf("Indian");
c = a && printf("Jai Hind");
printf<u>(</u>"\na=%d, b=%d, c=%d", a,b,c );
getch();
```

