

```
1 #include<stdio.h>
2 #include<conio.h>
3 int main(){
4     int a=2,b=3;
5     int sum,sub,mul,rem,ivid;
6     float rdiv;
7     sum=a+b;
8     sub=a-b;
9     mul=a*b;
10    ivid=a/b;
11    rem=a%b;
12    rdiv=(float)a/ (float)b;
13    printf("\n sum=%d",sum);
14    printf("\n sub=%d",sub);
15    printf("\n mul=%d",mul);
16    printf("\n ivid=%d",ivid);
17    printf("\n rem=%d",rem);
18    printf("\n rdiv=%d",rdiv);
19    getch();
20    return 0;
21
```

Abort Compilation

☐ Shorten compiler paths

Compilation results...

-----

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogrammingY1\Hahal.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.27s
```

```
sum=5
sub=-1
mul=6
ivid=0
rem=2
rdiv=1610612736
```



```
1 //relation operators
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     int n;
6     printf("\nEnter any number:");
7     scanf("%d",&n);
8     printf("\n(n<10) is =%d",(n<10));
9     printf("\n(n>10) is =%d",(n>10));
10    printf("\n(n<=10) is =%d",(n<=10));
11    printf("\n(n>=10) is =%d",(n>=10));
12    printf("\n(n==10) is =%d",(n==10));
13    printf("\n(n!=10) is =%d",(n!=10));
14    getch();
15    return 0;
16 }
```

Abort Compilation

☐ Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogrammingY1\Haha2.exe
- Output Size: 129.271484375 KiB
- Compilation Time: 0.28s
```

Enter any number:4

```
(n<10) is =1
(n>10) is =0
(n<=10) is =1
(n>=10) is =0
(n==10) is =0
(n!=10) is =1
```

```
-----
Process exited after 32.61 seconds with return value 0
Press any key to continue . . .
```

```
1 //Logical AND(&&) operator
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     int a;
6     a=(2<1) && (4<3);
7     printf("\n (2<1) && (4<3)=%d",a);
8     a=(2<1) && (4>3);
9     printf("\n (2<1) && (4>3)=%d",a);
10    a=(2>1) && (4<3);
11    printf("\n (2>1) && (4<3)=%d",a);
12    a=(2>1) && (4>3);
13    printf("\n (2>1) && (4>3)=%d",a);
14    getch();
15    return 0;
16 }
```

Abort Compilation

☐ Shorten compiler paths

Compilation results...

-----

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogramingY1\Haha3.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.22s
```

```
(2<1) && (4<3)=0
(2<1) && (4>3)=0
(2>1) && (4<3)=0
(2>1) && (4>3)=1
```

```
1 //Logical OR(||) operator
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     int a;
6     a=(2<1)||(4<3);
7     printf("\n (2<1)||(4<3)=%d",a);
8     a=(2<1)||(4>3);
9     printf("\n (2<1)||(4>3)=%d",a);
10    a=(2>1)||(4<3);
11    printf("\n (2>1)||(4<3)=%d",a);
12    a=(2>1)||(4>3);
13    printf("\n (2>1)||(4>3)=%d",a);
14    getch();
15    return 0;
16 }
```

Abort Compilation

☐ Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogrammingY1\Haha5.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.25s
```

```
(2<1)||(4<3)=0
(2<1)||(4>3)=1
(2>1)||(4<3)=1
(2>1)||(4>3)=1
```

```
-----
Process exited after 2.206 seconds with return value 0
Press any key to continue . . .
```



```
1 //Logical NOT (!) operator
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     int a;
6     a= !(5<1);
7     printf("\n !(5<1)=%d",a);
8     a= !(5>1);
9     printf("\n !(5>1)=%d",a);
10    getch();
11    return 0;
12 }
```

Abort Compilation

☐ Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogramingY1\haha6.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.24s
```

```
!(5<1)=1
!(5>1)=0
```



```
1 #include<stdio.h>
2 int main(){
3     int a,b,c,d;
4     a=10;
5     b=a;
6     c=a+b;
7     d=10;
8     d=d+10;
9     printf("\n a=%d,b=%d",a,b);
10    printf("\n c=%d,d=%d",c,d);
11    return 0;
12
13 }
```

Abort Compilation

☐ Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogrammingY1\haha7.exe
- Output Size: 127.931640625 KiB
- Compilation Time: 0.24s
```

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a=10,b=10

c=20,d=20

```
-----
Process exited after 0.03624 seconds with return value 0
Press any key to continue . . .
```

```
1 //Short-hand Assignment (Compound Assignment) Operator
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     int num;
6     num=10;
7     printf("\n Num: %d",num);
8     num+=10;
9     printf("\n Num +=10: %d",num);
10    num-=5;
11    printf("\n Num -=5: %d",num);
12    num*=2;
13    printf("\n Num *=2: %d",num);
14    num/=3;
15    printf("\n Num /=3: %d",num);
16    num%=3;
17    printf("\n Num %=3: %d",num);
18    getch();
19    return 0;
20 }
```

Abort Compilation

☐ Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogrammingY1\haha8.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.23s
```

```
Num: 10
Num +=10: 20
Num -=5: 15
Num *=2: 30
Num /=3: 10
Num %=3: 1
```

```
-----
Process exited after 2.463 seconds with return value 0
Press any key to continue . . . |
```

```
1 //Prefix and Postfix Increment (++) operator
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     int a=10,b;
6     b=++a;
7     printf("\n After Prefix Increment:");
8     printf("a=%d and b=%d", a,b);
9     a=10;
10    b=a++;
11    printf("\n After Postfix Increment:");
12    printf("a=%d and b=%d", a,b);
13    getch();
14    return 0;
15
16 }
```

Abort Compilation

Compilation results...

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```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogrammingY1\haha9.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.23s
```

```
After Prefix Increment:a=11 and b=11
After Postfix Increment:a=11 and b=10
```



```
1 //Prefix and Postfix Decrement (--) operator
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     int a=10,b;
6     b=--a;
7     printf("\n After Prefix Decrement:");
8     printf("a=%d and b=%d", a,b);
9     a=10;
10    b=a--;
11    printf("\n After Postfix Decrement:");
12    printf("a=%d and b=%d", a,b);
13    getch();
14    return 0;
15
16 }
```

Abort Compilation

Compilation results...

-----

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogramingY1\haha10.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.23s
```

```
After Prefix Decrement:a=9 and b=9
After Postfix Decrement:a=9 and b=10
```

```
1 //Type Casting
2 #include<stdio.h>
3 #include<conio.h>
4 int main(){
5     float a;
6     int x=10, y=3;
7     a=x/y;
8     printf("\n Value of a (Without casting)=%f",a);
9     a=(float)x/y;
10    printf("\n Value of a (With casting)=%f",a);
11    getch();
12    return 0;
13 }
```

Abort Compilation

Compilation results...

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```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\monva\OneDrive\Desktop\CprogrammingY1\haha12.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.23s
```

```
Value of a (Without casting)=3.000000
Value of a (With casting)=3.333333
```