

# COMMA OPERATORS!!!

## PART I

Comma operator is one, which is not noticed properly most times....it's because people think it's just a comma...but it's not when it comes to c++, yes, you will accept it after you finish reading the whole worksheet. It's not so great a thing, but it sure is something more than what you think!! .

Comma operator is like a mosquito whose physical appearance is small, but has great powers...!!

Ok, I think I am glorifying comma operator a lot, so let's start.

To start with, let me give you some output programs, you may find it difficult (really!!), so I would tell "try it", and check your answer with given solutions. I am giving only program segments ok.

## OUTPUT PROGRAMS

```
1) int a=1;
   a++,++a,a--; //DUMB??
   cout<<a;
```

```
2) int a=1,b;
   b=--a,++a,a+=10,a*=1;    // ...Does it work??
   c=(a=2,a*=2,a/=2,a++);  //DAMN!!
   cout<<b<<"\n"<<c;
```

```
3) int a=10;
   cout<<a*=12,a/=2,a+=10,a%2<<"\n"
      <<(a*=12),a/=2,a+=10,a%2<<"\n"    //DUMB??!!
      << (a*=12,(a/=2)),a+=10,a%2<<"\n" //very DUMB ??!!
      << (a*=12,a/=2,a+=10),a%2<<"\n" // PHOOSH !!
      << (a*=12,a/=2,a+=10,a%2);    // DAMN !
```

```
4) int a;
   for(a=0;a<(10,12,5);a++)    // DUMB ??!!
   cout<<a;
```

```
5) int j;
   for(j=0;j<10,1,2;j++)      //DUMB ?????!!!
   cout<<j;
```

```
6) int i;
   for(i=1;i<5,i<4,i<3;i++)
   cout<<i;
```

```
7) int i;  
   for(i=1;((i<5),i<4,i<3);i++)  
   cout<<i;
```

```
8) int i;  
   for(i=1;i<5,(i<4,(i<3));i++)  
   cout<<i;
```

```
9) int i;  
   for(i=1;i<5,((i<4),i<3);i++)  
   cout<<i;
```

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I know, now you might think why am I giving such DUMB, idiotic, foolish Qs...you are thinking like this, probably because you were not exposed to such type of Qs...and believe me these Qs will put your jaw down when you come to know the real concept of comma operators...in my words the "TOP SECRET" of comma operators!! ☺ (truly speaking there's only one secret [lol])... I stop with this for the Part I of Comma Operators. In Part II, I will tell you the solutions for the above Qs and also explain what do I mean by "Phoosh" ?? !! ...lol...but yeah, I will surely tell you what "Phoosh" means....

Till then,

Have fun. ☺

Karuppiah.