



ASSIGNMENT – 1

NAME: SOUMYADIP MAITY

SUBJECT: PROGRAMMING LAB

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//#1 find value of c, c = ++a + --b

```
#include<stdio.h>

int main (){

    int a=10,c=5,b=8;

    c= ++a + --b;

    printf("%d",c);

    return 0;

}
```

18

//#2 find c when c = (a + b++) + (--a + b--)

```
#include<stdio.h>

int main() {

    int a=8, b=10, c=5;

    c = (a + b++) + (--a + b--);

    printf("%d",c);

    return 0;

}
```

36

//#3 find c when c = ++(++a)

```
#include<stdio.h>

int main(){

    int a=8, c=0;

    c = ++(++a);

    printf("%d",c);

    return 0;

}
```

10

//#4 find b when $b=a++/2$

```
#include<stdio.h>

int main()
{
    int a=5, b=0;
    b = a++/2;
    printf("%d",b);
    return 0;
}
```

2

*//#5 find value of d when $d=(++c - --b * ++a)\%2$*

```
#include<stdio.h>

int main ()
{
    int a=10,c=5,b=8, d=0;
    d=(++c - --b * ++a)%2;
    printf("%d",d);
    return 0;
}
```

-1

*//#6 find value of c when $c=++(a*b+1)$*

```
#include<stdio.h>

int main()
{
    int a=6,c=3,b=10;
    c=++c*(a*b+1);
    printf("%d",c);
    return 0;
}
```

244

//#7 find value of d when $d=(a++b/10)- --b$*

```
#include<stdio.h>

int main()
{
    int a=6,c=3,b=10, d=6;
    d=(a*++b/10)- --b;
    printf("%d",d);
    return 0;
}
```

-4

//#8 find d when d= a++ + --b + ++c

```
#include<stdio.h>

int main()
{
    int a=5,b=10,c=2 , d=0;
    d= a++ + --b + ++c;
    printf("Final value is %d ",d);
    return 0;
}
```

Final value is 17

//#9 e = ++c + d-- + b++--a*

```
#include<stdio.h>

int main()
{
    int a=5,b=4,c=1 , d=0,e=9;
    e = ++c + d-- + b++*--a;
    printf("Final value is %d ",e);
    return 0;
}
```

Final value is 18

```
// #10 e = (++c + d--)/( b++ - ++a)
```

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

```
int main()
```

```
{
```

```
    float a=5,b=4,c=1 , d=6,e=9;
```

```
    e = (++c + d--)/( b++ - ++a);
```

```
    printf("a = %f \n",a);
```

```
    printf("b = %f \n",b);
```

```
    printf("c = %f \n",c);
```

```
    printf("d = %f \n",d);
```

```
    printf("e = %f \n",e);
```

```
    return 0;
```

```
}
```

```
a = 6.000000
```

```
b = 5.000000
```

```
c = 2.000000
```

```
d = 5.000000
```

```
e = -4.000000
```

```
// #11 a++; a += a; --a; a = 7 + a; a *= a; a -= 3
```

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

```
int main(){
```

```
    int a=10;
```

```
    a++;
```

```
    a += a;
```

```
    --a;
```

```
    a = 7 + a;
```

```
    a *= a;
```

```
    a -= 3;
```

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

```
}
```

```
781
```

```
// #12 a = b + c * d / 4 % 2 - 1
```

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

```
int main(){
```

```
    int a=10, b=8, c=2, d=0;
```

```
    a = b + c * d / 4 % 2 - 1;
```

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

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

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

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

```
    return 0;
```

```
}
```

```
7
```

```
8
```

```
2
```

```
0
```



```
//#13 a++; b += a; --c; d = 10 + a; a *= a; d -= 4
```

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

```
int main()
```

```
{
```

```
    int a=10, b=8, c=2, d=0;
```

```
    a++;
```

```
    b += a;
```

```
    --c;
```

```
    d = 10 + a;
```

```
    a *= a;
```

```
    d -= 4;
```

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

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

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

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

```
    return 0;
```

```
}
```

```
121
```

```
19
```

```
1
```

```
17
```

```
// #14 a = (--b + --c) * (++d / 4) % 2 - 1
```

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

```
int main()
```

```
{
```

```
    int a=5, b=9, c=0,d=10;
```

```
    a = (--b + --c) * (++d / 4) % 2 - 1 ;
```

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

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

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

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

```
    return 0;
```

```
}
```

```
-1
```

```
8
```

```
-1
```

```
11
```

```
// #15 e=a++/2/b--/c++/d--
#include<stdio.h>

int main()
{
    float a=10, b=8, c=2, d=0;
    double e=a++/2/b--/c++/d--;

    printf("%f\n", a);
    printf("%f\n", b);
    printf("%f\n", c);
    printf("%f\n", d);
    printf("%lf\n", e);
    return 0;
}
```

```
11.000000
7.000000
3.000000
-1.000000
1.#INF00
```