Program 1

//Program to test values of pre & post: increment & decrement.

```
#include<stdio.h>
int main(){
	float x=5.0, b=5.0, a;

	a= ++x + ++b; // a=12 , x=6, b=6
	printf("A = %f\n",a);
	a= ++x - ++b; // a=0 , x=7, b=7
	printf("A = %f\n",a);
	a= ++x * ++b; // a=64, x=8, b=8
	printf("A = %f\n",a);
	a= ++x / ++b; // a=1,  x=9, b=9
	printf("A = %f\n",a);

	printf(“\n”);
	x=5.0, b=5.0;

	a= x++ + ++b; // a=11, x=5, b=6
	printf("A = %f\n",a);
	a= x++ - ++b; // a=-1,  x=6, b=7
	printf("A = %f\n",a);
	a= x++ * ++b; // a=56, x=7, b=8
	printf("A = %f\n",a);
	a= x++ / ++b; // a=0.888, x=8, b=9
	printf("A = %f\n",a);

	printf("\n");
	x=5.0, b=5.0;

	a= ++x + b++; // a=11, x=6, b=5
	printf("A = %f\n",a);
	a= ++x - b++; // a=1, x=7, b=6
	printf("A = %f\n",a);
	a= ++x * b++; // a=56, x=8, b=7
	printf("A = %f\n",a);
	a= ++x / b++; // a=1.125, x=9, b=8
	printf("A = %f\n",a);

	printf("\n");
	x=5.0, b=5.0;

	a= x++ + b++; // a=10, x= 5, b=5
	printf("A = %f\n",a);
	a= x++ - b++; // a=0, x=6, b=6
	printf("A = %f\n",a);
	a= x++ * b++; // a=49, x=7, b=7
	printf("A = %f\n",a);
	a= x++ / b++; // a=1, x=8, b=8
	printf("A = %f\n",a);
}
```

```
vipul@whiplash:~/Codes/Practicals/Experiment 4$ ./testprogram_output
A = 12.000000
A = 0.000000
A = 64.000000
A = 1.000000

A = 11.000000
A = -1.000000
A = 56.000000
A = 0.888889

A = 11.000000
A = 1.000000
A = 56.000000
A = 1.125000

A = 10.000000
A = 0.000000
A = 49.000000
A = 1.000000
```

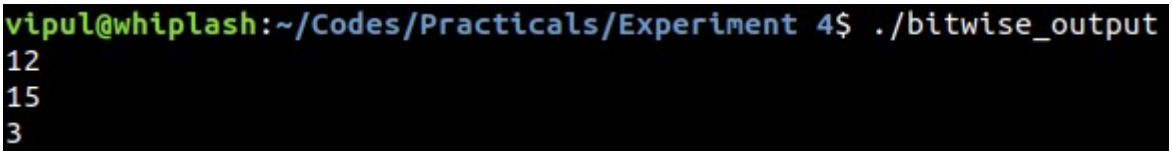
Program 2

```
// Program to perform bitwise operations

#include<stdio.h>

int main(){
        int p,q,r,a=13,b=14;
        p=a&b;
        q=a|b;
        r=a^b;
        printf("%d\n%d\n%d\n",p,q,r);

}
```



Program 3
//Program to