```
/*Homework 04 Problems done in R, confirm in SAS*/

/*Homework 03 Problem 3.15*/
title 'STAT455-HW03 Problem 3.15(a)(b) Woolf CI and Exact Cornfield';
options ls=72 ps=max nocenter;
data cancer;
input Group $ Normal $ count;
datalines;
Treatment Yes 7
Treatment No 8
Control Yes 0
Control No 15
;
run;
proc freq data=cancer order=data;
weight count;
table Group*Normal;
exact fisher or;
run;


/*Homework 04 Problem 3.3*/
title 'STAT455-HW04 Problem 3.3';
options ls=72 ps=max nocenter;
data bbal;
do shot_one =0 to 1;
do shot_two =0 to 1;
input count @@;
output;
end;
end;
datalines;
251 34
48 5
;
run;
proc freq data=bbal;
weight count;
table shot_one*shot_two/chisq cellchi2 expected nocol
norow nocum nopercent;
run;


/*Homework 03=4 Problem 3.9a*/
title 'STAT455-HW04 Problem 3.9(a)';
data treatment;
do diag = 1 to 5;
do drug = 1 to 2;
input count @@;
output;
```

```
end;
end;
datalines;
105 8
12 2
18 19
47 52
0 13
;
run;
proc genmod data=treatment;
class diag drug;
model count=diag drug/dist=poisson link=log;
output out=obstat pred=pred stdreschi=stdreschi;
run;

/*Homework 03 Problem 3.12*/
title1 'STAT455-HW03 Problem 3.12';
options ls=72 ps=max nocenter;
data abortion;
do school=1 to 3;
do attitude=1 to 3;
input count @@;
output;
end;
end;
datalines;
209 101 237
151 126 426
16 21 138
;
run;
proc freq data=abortion;
```