```
/*-----*/
/*=(IPS10-2.146)========*
|== Smokers and Non-Smokers
========*/
/*----/
|2(a) Creating the data we need |
----*/
/* Yes means Smoker, No means not a smoker.*/
data Smoking Is Bad;
  input Survival $ Smoker $ Age_Group $ Counts;
  datalines;
Dead Yes A 19
Alive Yes A 269
Dead No A 13
Alive No A 327
Dead Yes B 78
Alive Yes B 167
Dead No B 52
Alive No B 147
Dead Yes C 42
Alive Yes C 7
Dead No C 165
Alive No C 28
run;
/*-----/
|1(a) Two-Way table for Smoking(yes|no) and Survival(dead|alive) |
*/
title "Conditional Distribution of Smokers and Survival rates";
proc freq data=Smoking Is Bad;
  tables Survival * Smoker / nopercent norow nocum;
  weight Counts;
run;
/*----/
|1(b) Simpson's Paradox Table |
title "Conditional Table of all Age groups";
proc freq data=Smoking Is Bad;
  tables Survival * Age_Group * Smoker / norow nopercent;
  weight Counts;
run;
/*_____/
|1(c) Comparing the percentage of smokers in the three age groups |
 */
```

about:blank 1/4

```
/*=(IPS10-2.100)=======*
|==Titanic Data Load
========*/
FILENAME REFFILE '/home/u64309835/Homework_3/ex02-100titanic-1.csv';
/* Sheet: neg linear */
proc import datafile=reffile
   dbms=CSV
   out=Titanic data
   replace;
   getnames=yes;
run;
/*=======*/
/*----/
|2(a) Two-Way table for Survival and Class |
*/
proc format;
   value Pclass_Ticket
      1 = "First"
      2 = "Second"
      3 = "Third";
   value Dead Alive
      0 = Dead
      1 = Alive;
run;
title "Two-Way table for Survival and Class";
proc freq data=Titanic_data;
   tables Survived * Pclass / norow nocol nopercent;
   weight Pclass;
   format Pclass Pclass Ticket.;
   format Survived Dead_Alive.;
run;
/*=========*/
/*----/
|2(c) Marginal Distributions
title "Marginal Distribution for Survival and Class";
proc freq data=Titanic_data;
   tables Survived * Pclass / nocol nopercent;
   weight Pclass;
   format Pclass Pclass_Ticket.;
   format Survived Dead Alive.;
run;
```

about:blank 2/4

about:blank 3/4

tables Survival*Hospital_Type / nocol nopercent;

proc freq data=Good Condition;

weight Counts;

run;

about:blank 4/4