SAS 자료입력

```
data example1;
input x y;
datalines;

2 10
4 15
0 12
3 11
5 15
7 18
4 17
7 22
run;

proc reg data=example1;
  model y = x;
run;

data example2;
infile 'f:₩testdata.dat';
input x y;
run;
```

예 2.1 가상자료

```
data reg029;
infile 'f:₩reg029.dat';
input x y;
run;

proc reg data=reg029;
  model y = x;
run;

proc reg data=reg029;
  model y = x / clb;
run;

proc reg data=reg029;
  model y = x / clm cli;
run;

data reg029;
set reg029 end=last;
output;
if last then do;
     y = .;
     x = 5;
     output;
end;
run;

proc reg data=reg029;
model y = x / clm cli;
run;


proc reg data=reg029;
model y = x / lackfit;
run;
```

예 2.1 포도수확량자료

연습문제 2.1

```
data reg005;
infile 'f:₩reg005.dat';
input year y x;
run;

proc reg data=reg005;
  model y = x;
run;

proc reg data=reg005;
  model y = x;
  output out = out1 r = e p=yhat;
run;

proc print data=out1;
run;

proc gplot data=out1;
  plot e*yhat;
run;
```

예 3.2 열대어자료

원점을 통과하는 회귀식

적합결여검정

```
data reg077;
infile 'f:₩reg077.dat';
input x y;
run;

proc reg data=reg077;
model y = x / clb;
run;

data reg077;
set reg077 end=last;
output;
if last then do
     x=12;
     y=.;
     output;
end;
run;

proc reg data=reg077;
model y = x / clm cli;
run;

proc reg data=reg077;
model y = x / lackfit;
run;
```

```
data reg077;
infile 'f:₩reg077.dat';
input x y;
run;

proc reg data=reg077;
model y = x / noint clb;
run;

data reg077;
set reg077 end=last;
output;
if last then do
     x=12;
     y=.;
     output;
end;
run;

proc reg data=reg077;
model y = x / noint clm cli;
run;

proc reg data=reg077;
model y = x / noint lackfit;
run;
```

연습문제 2.3

```
data reg052;
infile 'f:₩reg052.dat';
input x y y1;
run;

proc reg data=reg052;
model y = x;
output out = out2 r = e p=yhat;
run;

proc print data=out2;
run;

proc reg data=reg052;
model y1 = x;
output out = out3 r = e p=yhat;
run;

proc print data=out3;
run;
```

연습문제 3.5

```
data reg097;
infile 'k:₩reg097.dat';
input x y;
run;

proc reg data=reg097;
model y = x / lackfit;
run;
```

가중최소제곱법

```
data reg040;
infile 'f:₩reg040.dat';
input x n y u1 u2 u3;
run;

proc reg data=reg040;
model y = x;
weight n;
run;
```

예 4.3 보험회사자료

```
data reg104;
infile 'f:₩reg104.dat';
input y x1 x2;
run;

proc reg data=reg104;
model y = x1 x2;
run;

proc reg data=reg104;
model y = x1 x2 / partial pcorr2 clb ss1;
run;

proc reg data=reg104;
model y = x2 x1 / ss1;
run;

proc reg data=reg104;
model y = x1 x2 / influence;
run;

data reg104;
set reg104 end=last;
output;
if last then do;
    y = .;
    x1 = 2;
    x2 = 5;
    output;
end;
run;

proc reg data=reg104 alpha=.05;
model y = x1 x2 / CLI CLM influence;
run;

proc reg data=reg104 alpha=.05;
model y = x1 / CLI CLM influence;
run;
```