```
* SAS Numeric Formats;
/*
SAS use two kinds of numeric formats.
One for reading specific formats of the numeric data
which is called informat and another for displaying the numeric data in specific
format called as output format.

Syntax:
Varname Formatnamew.d

Formatname - is the name of the name of the numeric format applied to the variable.

w - is the maximum number of data columns (including digits after decimal &
the decimal point itself) allowed to be stored for the variable.

d - is the number of digits to the right of the decimal.
*/

*Reading Numeric formats;
/*
n.       - Maximum "n" number of columns with no decimal point.
n.p      - Maximum "n" number of columns with "p" decimal points.
COMMAn.p - Maximum "n" number of columns with "p" decimal places which removes any comma or dollar signs.
*/

*Displaying Numeric formats;
/*
n.        - Write maximum "n" number of digits with no decimal point.
n.p       - Write maximum "n.p" number of columns with "p" decimal points.
DOLLARn.p - Write maximum "n" number of columns with p decimal places, leading dollar sign and a comma at the thousandth place.


If the number of digits after the decimal point is less than the format
specifier thenzeros will be appended at the end.

If the number of digits after the decimal point is greater than the
format specifier then the last digit will be rounded off.
*/

DATA MYDATA1;
input x 6.; /*maxiiuum width of the data*/
format x 6.1;
datalines;
8722
93.2
.1122
15.116
PROC PRINT DATA = MYDATA1;
RUN;

DATA MYDATA2;
input x 6.; /*maximum width of the data*/
format x 5.2;
datalines;
8722
93.2
.1122
15.116
PROC PRINT DATA = MYDATA2;
RUN;

DATA MYDATA3;
input x 6.; /*maximum width of the data*/
format x DOLLAR10.2;
datalines;
8722
93.2
.1122
15.116
PROC PRINT DATA = MYDATA3;
RUN;

/*
# MYDATA1.
Obs     x
1   8722.0 # Display 6 columns with zero appended after decimal.
2   93.200 # Display 6 columns with zero appended after decimal.
3   0.112  # No integers before decimal, so display 3 available digits after decimal.
4   15.116 # Display 6 columns with 3 available digits after decimal.

# MYDATA2
Obs     x
1   8722  # Display 5 columns. Only 4 are available.
2   93.20 # Display 5 columns with zero appended after decimal.
3   0.11  # Display 5 columns with 2 places after decimal.
4   15.12 # Display 5 columns with 2 places after decimal.

# MYDATA3
Obs     x
1   $8,722.00 # Display 10 columns with leading $ sign, comma at thousandth place and zeros appended after decimal.
2   $93.20    # Only 2 integers available before decimal and one available after the decimal.
3   $0.11     # No integers available before decimal and two available after the decimal.
4   $15.12    # Only 2 integers available before decimal and two available after the decimal.
*/
```