```
* SAS Sort Datasets;
/*
The SAS procedure used to carry out the sorting in SAS data set is named PROC SORT.
Syntax;
PROC SORT DATA = original dataset OUT = Sorted dataset;
    BY variable name;

*/

DATA Employee;
    INPUT empid name $ salary DEPT $ ;
DATALINES;
1 Rick 623.3    IT
2 Dan 515.2     OPS
3 Mike 611.5    IT
4 Ryan 729.1    HR
5 Gary 843.25   FIN
6 Tusar 578.6   IT
7 Pranab 632.8  OPS
8 Rasmi 722.5   FIN
;
RUN;

PROC SORT DATA = Employee OUT = Sorted_sal ;
    BY salary;
RUN ;

PROC PRINT DATA = Sorted_sal;
RUN ;

*Reverse Sorting;
DATA Employee;
    INPUT empid name $ salary DEPT $ ;
DATALINES;
1 Rick 623.3    IT
2 Dan 515.2     OPS
3 Mike 611.5    IT
4 Ryan 729.1    HR
5 Gary 843.25   FIN
6 Tusar 578.6   IT
7 Pranab 632.8  OPS
8 Rasmi 722.5   FIN
;
RUN;

PROC SORT DATA = Employee OUT = Sorted_sal_reverse ;
    BY DESCENDING salary;
RUN ;

PROC PRINT DATA = Sorted_sal_reverse;
RUN ;

*Sorting Multiple Variables;
DATA Employee;
    INPUT empid name $ salary DEPT $ ;
DATALINES;
1 Rick 623.3    IT
2 Dan 515.2     OPS
3 Mike 611.5    IT
4 Ryan 729.1    HR
5 Gary 843.25   FIN
6 Tusar 578.6   IT
7 Pranab 632.8  OPS
8 Rasmi 722.5   FIN
;
RUN;

PROC SORT DATA = Employee OUT = Sorted_dept_sal ;
    BY salary DEPT;
RUN ;

PROC PRINT DATA = Sorted_dept_sal;
RUN ;
```