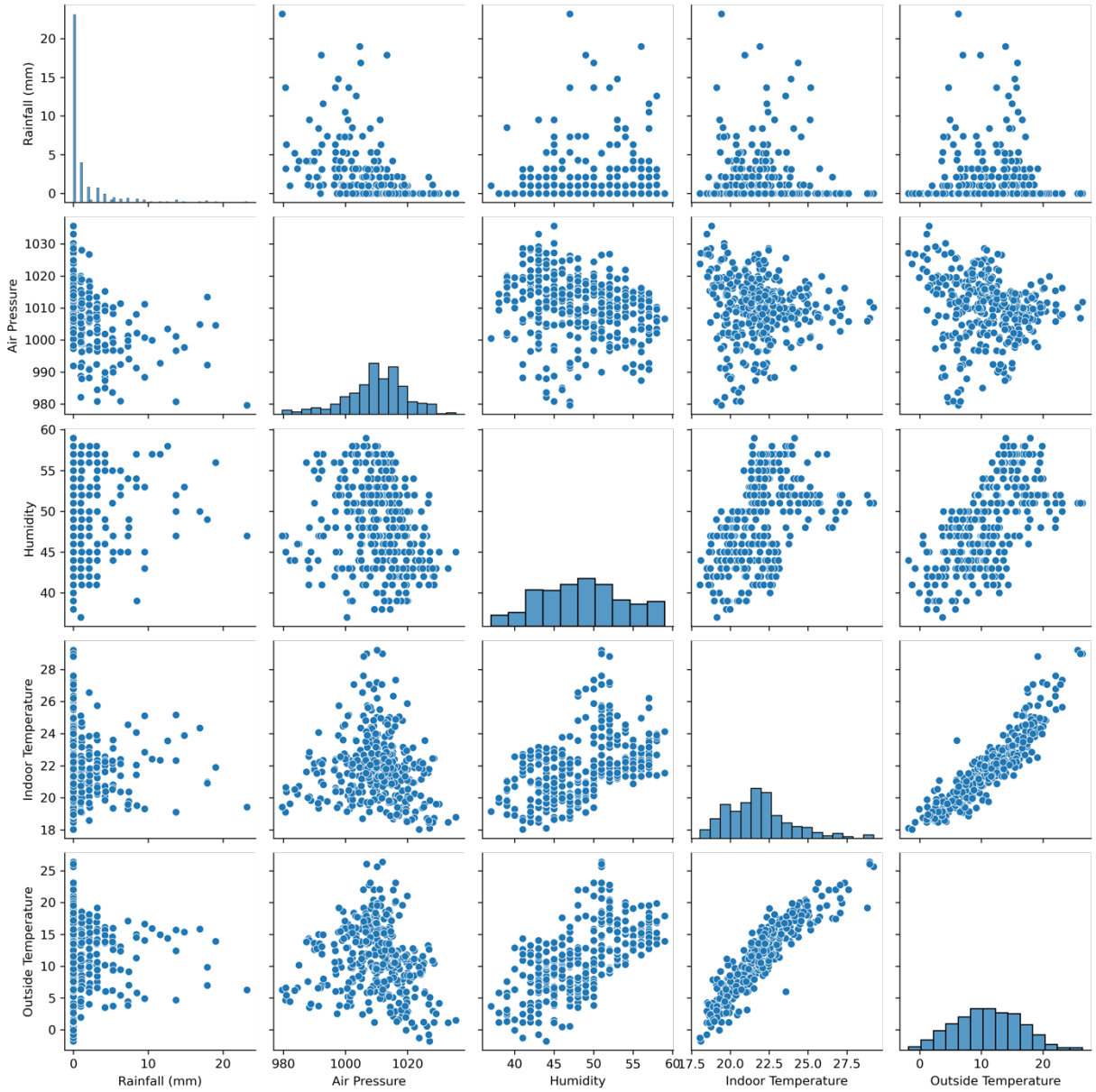
CM50266: APPLIED DATA SCIENCE
LAB 1 – TASK 1

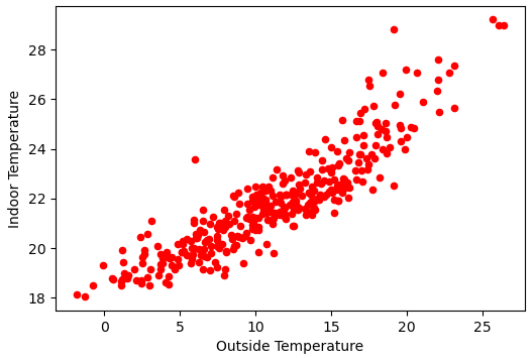
Mean, standard deviation, maximum and minimum of each weather component:

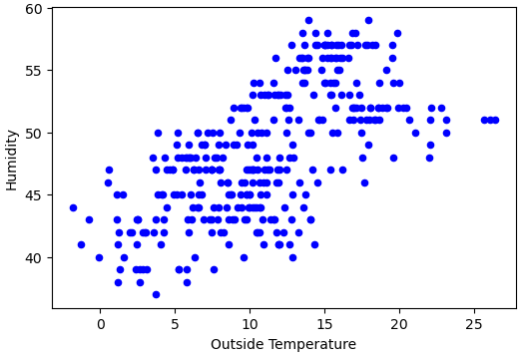
	Rainfall (mm)	Air Pressure	Humidity	Indoor Temperature	Lower Indoor Temperature Range	Higher Indoor Temperature Range	Outside Temperature	Lower Outside Temperature Range	Higher Outside Temperature Range
count	353.000000	355.000000	354.000000	354.000000	354.000000	354.000000	355.000000	355.000000	355.000000
mean	1.548725	1009.998873	48.519774	21.827885	20.555932	23.533616	11.138877	7.865634	15.524225
std	3.324599	9.869662	5.188886	2.058307	2.405125	1.701466	5.355042	4.878930	7.034445
min	0.000000	979.600000	37.000000	18.040000	14.900000	19.700000	-1.810000	-4.100000	1.500000
25%	0.000000	1004.850000	44.000000	20.345000	18.725000	22.500000	7.390000	4.350000	10.250000
50%	0.000000	1010.500000	48.000000	21.710000	20.600000	23.200000	10.960000	8.000000	15.100000
75%	1.100000	1016.050000	52.000000	22.710000	21.900000	24.100000	15.050000	12.050000	19.850000
max	23.200000	1035.600000	59.000000	29.210000	28.200000	31.100000	26.380000	18.700000	38.500000

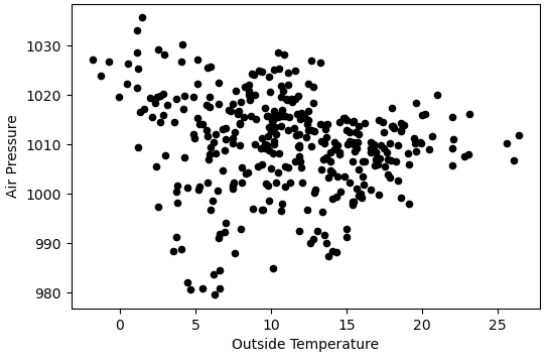
Analysis of correlation between five main components using correlogram constructed with seaborn library:

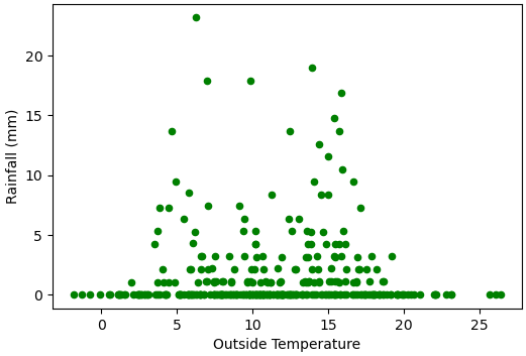


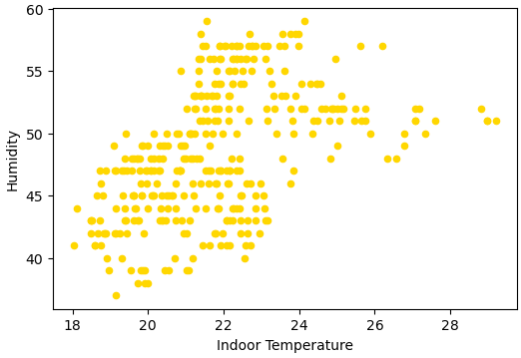
Analysis of correlation between five main components using scatterplots constructed with matplotlib library:

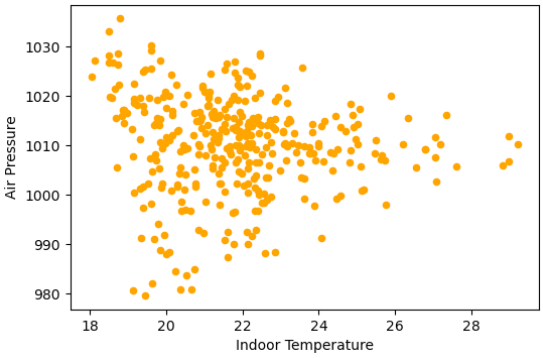


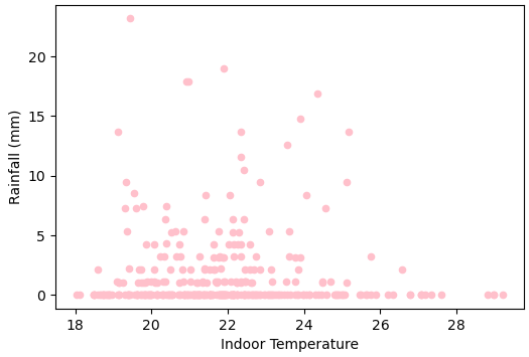


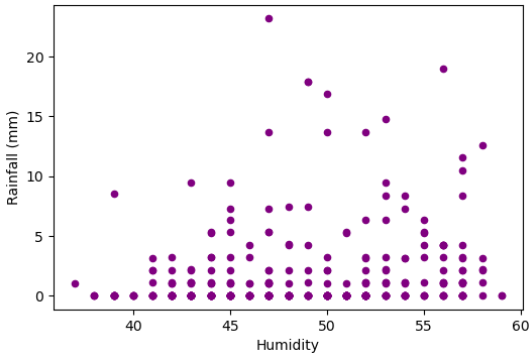


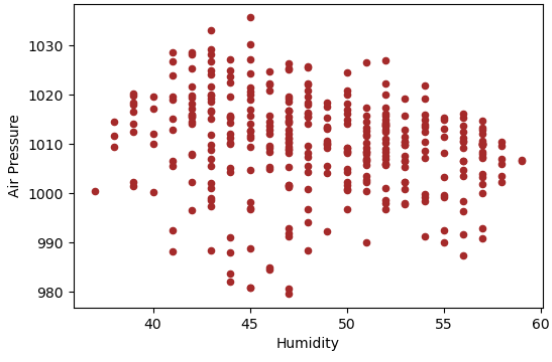


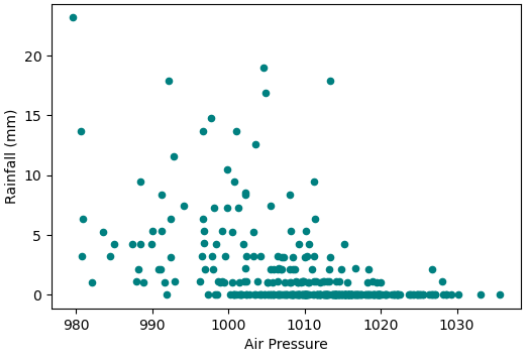












Analysis of correlation between all components using correlogram constructed with seaborn library: