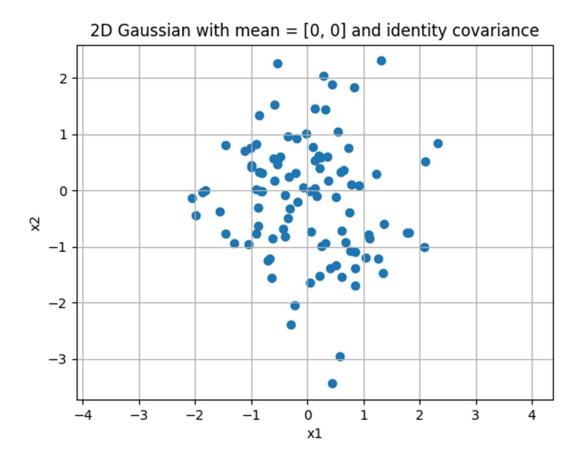
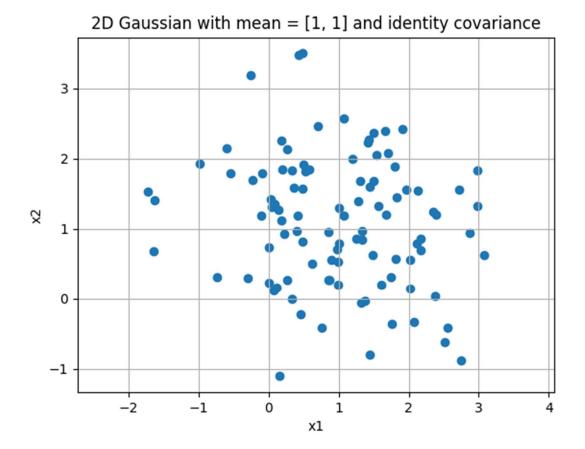
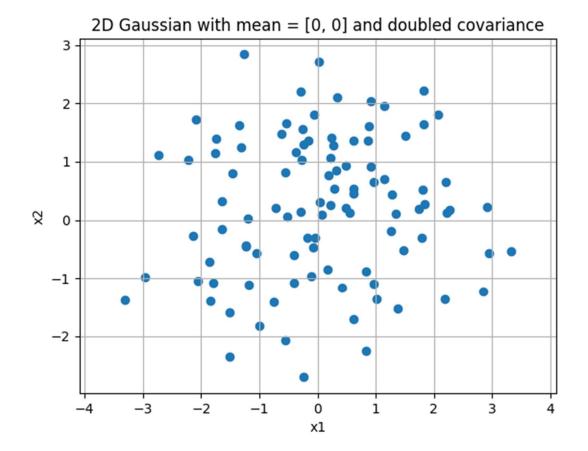
Plots for Question 5-1:



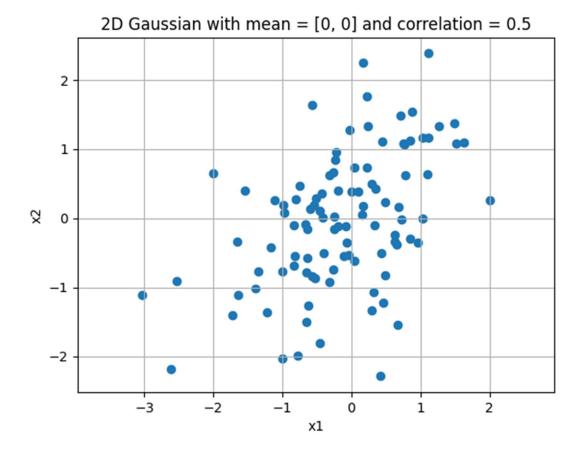
These points are distributed around the origin (the given mean), with most points falling within the range of ± 2 for both the x_1 and x_2 values. There are a few outliers that exceed those values.



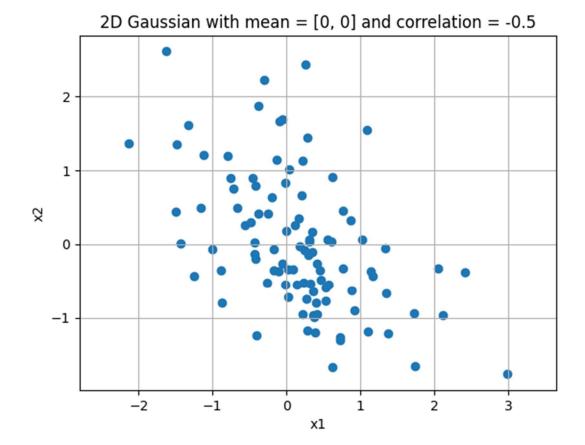
These points are distributed around the given mean [1, 1], with the range shifted so that most points fall within [-1, 3] for both the x_1 and x_2 values.



These points are dispersed evenly around the origin, but more widely than was seen with the identity covariance.



These points are still dispersed around the origin, but with a tendency toward the line y=x due to the correlation value.



These points are still dispersed around the origin, but with a tendency toward the line y=-x due to the correlation value.