

Problem 2:

The reason why we would want to initialize attributes in the `__init__` function is because if the attributes were to be created outside of methods the attribute would belong to the class rather than the object that is calling the function. We want every object of the class to have their own attribute rather than using one from the class. Another thing that could be done is to initialize attributes inside other methods using `self`. but this could lead to crashes during run time if the client were to try to access the attribute before it gets initialized.