1. Differentiate between private and public access/scope. Perform the question no. 4 with class instead of structure with having the data members private and some member functions in private scope and some in public scope.

The difference between private and public access/scope is that variables declared in private scope can't be accessed outside of the scope in which they are defined; they are private, and if we have to access them outside of the scope, we have to write code to get and set the values or declare a public function that can be accessed publicly. This is necessary for security purposes, as not everyone should have access to all variables.
A public access/scope variable is something that we can access any where even outside its scope. It is a necessary for some variables that are not sensitive for the public or even for debugging and testing purposes.