Question 2

The four classes that I would create for a membership system for a gym and fitness club are members, membership types, fitness classes and bookings.

Classes	Purpose	Key variable	Key methods
Members	This is to store the personal information of the member and allow different levels of access to equipment and perks in the gym.	- Their age - Membership type - Name - Gender	n/a
Membership Types	This will check the membership type of each member and their age.	- Age - Membership type	- Check the members age to see whether or not they are above or below 18 and allocate them to adult or junior classes. - Checks the member membership type and assign different access to different levels of classes in yoga and spin. Also check if they have paid for their membership. This can be gold, silver and bronze.
Fitness classes	This will create the fitness classes for both yoga and spin, but separate junior from adult and vice versa.	- Age - Membership type	- Show relevant classes for juniors and adults but not show both as juniors are not allowed in adults classes and vice versa.
Bookings	This will create the bookings for each class and separate them both so adults choose adult classes and juniors choose juniors. Also create booking slots for different classes including yoga and spin and check with their member ship tier to offer the correct and current bookings available.	- Age - Membership type - Paid	- Checking the age for junior classes and not allow them to mix between classes - Check the membership type and offer a greater range of classes the higher the tier the better the service will be offered. - Checking the member class to ensure that the member has paid otherwise services can be restricted.