**Does your class diagram respect or violate SOLID principles? Justify your answer.**

1-yes, our class diagram respects SOLID principles

Because each class has a single responsibility as in park class which is responsible for park in and park out functions and in receipt class which is responsible for calculating the fees.

Also, parking class respect the open and close principle as it is an abstract class which find first fit the class and find best fit class implements it.

The find first fit class respects the liskov principle as it inherits from parking class

**Does your class diagram contain any design pattern, if yes name it and list the names of the classes involved in such pattern?**

2-yes, our class diagram contains strategy design pattern that the parking class enables selecting an algorithm at runtime from the 2 classes that inherit from it