Ex1 – OOP

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Offline Algorithm - Python

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**Literature review:**

Projects we thought might be helpful for this assignment:

1. Efficient Elevator Algorithm - Tennessee University. <https://trace.tennessee.edu/cgi/viewcontent.cgi?article=3380&context=utk_chanhonoproj>
2. Smart Elevator – Geeks For Geeks.

<https://www.geeksforgeeks.org/smart-elevator-pro-geek-cup/>

1. Intellevator – IEEE Access.

<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9003300>

**The difference between Online algorithms and Offline algorithms:**

Most of the time, offline algorithms send the entire data as an input to the algorithm and the method can use the data to optimize and solve the solution better.

On the other hand, online algorithms sends the data piece by piece in some serial order without having the entire data from the beginning.

As a result of not having the whole data from the beginning, online algorithms might make decisions that later on might seem not so smart or optimal. Offline algorithms have the option to make the best decisions according to the given data which make it easier for offline algorithms to reach a better and more efficient than online algorithms.