Scientific Report Bullet Points for Coursework

Problem

* Large queue lengths.
* High average service time.
* It is expected that the problems are reduced.
* No more than 2 sentences. Don’t tell stuff already known.

Method

* Reduce mean queue length by reducing the mean service time.
* By buying new equipment.
* Or by assigning a second teller.
* Don’t tell stuff more than once.
* General comments
* Don’t tell how the algorithm works.

Assumptions

* The mean gap of customers arising is increasing with a constant rate up to a limit of 10.
* The mean service time is constant.
* When adding a second teller we assume the service time is halved.
* Don’t tell the range of values that will be used.
* Done enough simulations.

Results

* Results present a slight improvement to the mean queue length when buying new equipment as it lowers the mean service time for each customer.
* The results show a significant improvement to the mean queue length when assigning a second teller as it halves the mean service time.
* Don’t describe what the figure shows if you use it.
* Say more general things.
* Number of simulations must be high enough.

Conclusions

* The problem was successfully solved using the given methods.
* Correct method was applied as a significant improvement to the results was shown.
* Assigning a second teller has a better improvement than buying new equipment.