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**DATA COMMUNICATION BETWEEN PC TO PC VIA
EFFICIENT SMS INFRASTRUCTURE**

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ABSTRACT

This project is all about sending a data compressed short message service (SMS). The reason we are doing it is because currently one SMS only applicable to send 160 character. We realized most of the user nowadays always exceeds the 160 character limit and if we are sending more than 160 characters it will become two SMS and there will be a charge for sending two SMS. But with the compressed SMS we are doing, we can send more than 160 character. We are looking forward to send a SMS that is around 250 characters, these are equally to two SMS. And the most important part is we do all this in the cost of one SMS. This is definitely helping us to save lots of cost when we are sending SMS. The technique is we compressed the character that origin is two SMS became one SMS. The technique we are using to compress it is Arithmetic compression. We are using the Personal Computer (PC) and Global System for Mobile communication (GSM) modem to do achieve our Objective.

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"I would like to especially thank my mother and father, without those guidance and support I would not be here."

CONCLUSION

As a conclusion, SMS compression is surely to be able to bring benefits to us. As we realized that the 160 characters for one SMS is definitely not enough for us. Because most of the time we will send a message that is more than 160 characters. With the application of this algorithm we implement, it is definitely very useful. Because we can send more than 160 characters but the costs still remain the same as one SMS. The reason we are doing this project is due to the increasing numbers of mobile user that is using SMS. SMS have been played an important role in our life style, because we can use it for a lot of things. This included book a cinema ticket via SMS, getting the news via SMS and also check the KLSE stock Exchange.