**Literature Review**

***Definition of blood pressure:- Blood pressure is a measure of the force that your heart used to pump blood around your body.*** (Anon., 17 September 2019)

***Two types of blood pressure are there first one is High blood pressure & Low blood pressure.***

***Definition of High Blood pressure:- High blood pressure is often related to unhealthy habits lifestyle, such as smoking, drinking too much alcohol, being overweight and not exercising enough.*** (Anon., 17 September 2019)

***Definition of Low blood pressure:- Low blood pressure is less common. Some medicines can cause low blood pressure as a side effect. It can also be caused by a number of underlying conditions, including heart failure and dehydration.*** (Anon., 17 September 2019)

***The number of patients in hospital keep increasing every year and, some patients blood pressure must be measured by medical staff regularly.*** (Norlezah Hashim, Nurbahirah Norddin, Fakrulradzi Idris, Siti Nur Ilmani Mohd Yusoff, Madiha Zahari, Feb 5, 2020) ***This means that the that the medical staff need to attend to the patient routinely and several readings are required in each session to make sure the result are accurate. Therefore, there is a need to simplify and monitoring process inside hospitals.*** (Norlezah Hashim, Nurbahirah Norddin, Fakrulradzi Idris, Siti Nur Ilmani Mohd Yusoff, Madiha Zahari, Feb 5, 2020) ***In this work IoT Blood Pressure Monitoring System (IBPMS) is design to monitor patient’s blood pressure remotely.***

***This project use Raspberry Pi as a gateway to view the value of blood pressure online. Result showed that the design is capable to transfer data from blood pressure detector through that the network USB TTL serial cable which is directly attached to the Raspberry Pi. User can also view the blood pressure readings continuously from email service. Further more the system can measure the value of blood pressure accurately when user is in sitting position.***

***Is there any blood pressure device/module/kit for IOT (digital sphygmomanometer)?***

***Looking for a blood pressure device/module/kit which outputs raw data (serial or wireless, digital or analog). Usually, the information from these devices is on-screen only or, if Bluetooth, connected to an app that does not permit you to access the raw data.*** (Campos, 22nd Oct, 2020)***. I need to develop an instrument that measures the pressure data from the sphygmomanometer and processes it in a microcontroller to send it elsewhere. I couldn't find this kind of solution anywhere. I'm already thinking of buying an analogical sphygmomanometer and hacking a pressure sensor in it.*** (Campos, 22nd Oct, 2020)

***So I will do the research I will do the IoT Blood Pressure Monitoring System and finalize in my answer propose the system.***

***My research title is Possibilities of IoT Blood Pressure Monitoring System***

# References

[1] Anon., 17 September 2019. *NHS.* [Online]   
Available at: https://www.nhs.uk/common-health-questions/lifestyle/what-is-blood-pressure/

[2] Campos, D. P. d., 2020. *ResearchGate.* [Online]   
Available at: https://www.researchgate.net/post/Is\_there\_any\_blood\_pressure\_device\_module\_kit\_for\_IOT\_digital\_sphygmomanometer

[3] Campos, D. P. d., 22nd Oct, 2020. *ResearchGate.* [Online]   
Available at: https://www.researchgate.net/post/Is\_there\_any\_blood\_pressure\_device\_module\_kit\_for\_IOT\_digital\_sphygmomanometer

[4] Hashim, N., Apr 3, 2020. *IoT blood pressure monitoring system,* s.l.: s.n.

[5] Norlezah Hashim, Nurbahirah Norddin, Fakrulradzi Idris, Siti Nur Ilmani Mohd Yusoff, Madiha Zahari, Feb 5, 2020. IoT blood pressure monitoring system. *Indonesian Journal of Electrical Engineering and Computer Science,* Vol. 19(https://www.researchgate.net/publication/344027726\_IoT\_blood\_pressure\_monitoring\_system), pp. 1384 - 1390.