# Summary

The Idea for this project came from the movie “IRON MAN”. In the 'Iron Man' films, J.A.R.V.I.S. (short for **J**ust **A** **R**ather **V**ery **I**ntelligent **S**ystem) is the name of Stark's AI system that assists him in superhero-ing. We wanted to create something of that sort which helps people to get the relevant answer of their query within a few seconds without wasting too much time on the Internet. The aim was to develop a Virtual Tutor, where we can strive towards providing high quality education to children.

As one might think, how is Artificial Intelligent Responder (A.I.R.) different from GOOGLE NOW and SIRI platform?

A.I.R. tries to provide exact results rather than providing list of relevant webpages; hence saving a lot of time. It can solve Complex queries like polynomial, algebraic and astronomic calculation easily. Queries that we have tested successfully with AIR include:

1. *Mathematics*
2. *Units and measurement*
3. *Dates and times*
4. *People and history*
5. *Engineering*
6. *Places and geography*
7. *Astronomy*

Apart from answering questions, we have also integrated Language Translation in A.I.R. using which one can easily convert an expression from one language to another! All one has to do is enter his Source language, Destination Language and the expression that he needs to translate.

Artificial Intelligent Responder, as it states, works smartly and saves all the previously asked questions into an Offline database, so that whenever the same question is asked again the answer could be easily retrieved from the Database, hence saving the bandwidth. Also there are certain commands that help user to see the last question that he asked and the response that A.I.R. provided for that question, updating the database command so that the answers stored in memory are updated to more accurate values.

A.I.R. is powered by ARM based Raspberry Pi MCU (Model B). The pi is connected to a 3.5” touch LCD and 2.0 USB speakers so that the answers could be easily read and listened to. To make A.I.R. portable we have connected a 10,000mAh power bank to the Rpi which can run it for over 8 hours. A Wi-Fi adaptor has also been integrated in Pi to provide wireless Internet access.

*“We hope that our efforts will take the learning experience one step forward!”*