**Project name: - Smart Calculator**

**Description: -** The smart calculator is different from the normal calculator it has inbuilt arithmetic as well as math functions. It also tells u the area perimeter of different shapes based on your input

**Requirement Analysis**

* **High Level Requirements**
  + Any calculator needs to have the highest speed and accuracy.
  + The system should be multifunctional.
  + The System should be user friendly and compact.
  + The smart calculator’s battery lifetime should be more.
  + The precision value should be high.
* **Low Level Requirements**
* The speed of the calculator, it should give output within picoseconds.
* The system functions need to be specified and work properly.
* The precision of the calculator should be 10 power -15.
* The functions taking take input and process the output within nanoseconds.

**Requirement Mapping**

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| **Product ID** | **Description** |
| H\_01 | Speed and accuracy should be more |
| H\_02 | The processor should be multifunctional |
| H\_03 | System should be compact |
| H\_04 | Battery lifetime should be more |
| H\_05 | Precision should be high |
| H\_01\_L\_01 | Speed should be in picoseconds |
| H\_02\_L\_02 | The functions should be selected and should produce correct output. |
| H-03\_L\_03 | Precision value should be 10power -15 |
| L\_04 | Process time should be less than nanoseconds |