**Merits and Demerits of the Project**

**Study Tools**

1. **CALCULATOR**

**Merits:-**

1. Calculates same as the **general calculator**
2. Efficient to calculate **Cube Root**
3. Efficient to calculate **Trigonometric Values**

**Demerits:-**

1. Inefficient to change the sing of the input/output
2. Operator is to be inserted initially and then the operand contrast to the general functioning of calculator
3. **FORMULAE BOOK OF MATHEMATICS (BASED ON THE SYLLABUS OF ICSE STANDARD IX & X)**

**Merits:-**

1. Includes most of the concepts of Mathematics based on syllabus of **ICSE standard IX & X**.
2. Includes **43 concepts** of Mathematics
3. Efficient in calculating **Statistical Data**

**Demerits:-**

1. Lacks some of the concepts
2. Inefficient to calculate Mode and Median of grouped data
3. Very limited Applicable in Algebra
4. **HEALTH ANALYSIS (BASED ON BODY MASS INDEX (BMI))**

**Merits:-**

1. **Accurately calculates** Body Mass Index of the user

**Demerits:-**

1. Inefficient in flexibility of units
2. **PERTIODIC TABLE**

**Merits:-**

1. Enables user to **access information of required element according to requirement**

**Demerits:-**

1. Inefficient to help if user does not know the atomic number of the element required
2. **OVER ALL APPLICATION**

**Merits:-**

1. Specially designed program : does not **terminates in any kind of run time error**

**(Run Time Error Fixation Feature of the “STUDY TOOLS” program)**

1. Wait Function is specially designed for the **user convenience and user friendly feature**
2. Provides **maximum user friendly feature**

**Demerits:-**

1. Inefficient to retrieve in case of too many invalid inputs while execution of wait function
2. Inefficient to ignore case