CS THEORY(The things which mam didn’t taught us)

* Module 1:

C is a programming language developed at AT & T’s Bell Laboratories of USA in 1972

There are 32 keywords in C

No blank spaces are allowed within a variable, constant or keyword.

BODMAS.

C language has been developed by **Dennis Ritchie**

**What is a problem?**

**What is problem solving aspect?**

**Top Down Design, Implementation of Algorithms**

**Characteristics of a good algorithm.**

The characteristics of a good algorithm are: (PUFIOG)

Precision – the steps are precisely stated(defined).

Uniqueness – results of each step are uniquely defined and only depend on the input and the result of the preceding steps.

Finiteness – the algorithm stops after a finite number of instructions are executed.

Input – the algorithm receives input.

Output – the algorithm produces output.

Generality – the algorithm applies to a set of inputs

**Computer based applications of programming.**

**Steps followed in Program Development.**

**Characteristics of good Program.**

* Module 2:

**Variables, keywords, Data types, Operators: Arithmetic, Relational and Logical, Assignment, Unary, Conditional, Bitwise, Expression, Statements. 1,2 1 2.2 Branching Structures: if statement, if-else statement, multi-way decision, switch statement, continue statement, break statement Iterative Structures: while, do-while, for, nested loops**