**TRANSFORMATIONAL GENERATIVE GRAMMAR**

**(SYNTAX)**

***PROMINENT FEATURES***

* BY Noam Chomsky
* We acquire information about a language
* We create or generate sentences which means grammar is generative. (i.e. Generative grammar)

***MATHEMATICAL VIEW OF TG GRAMMAR***

* Helps to explain the meaning of the term
* EXAMPLE: algebraic expression- “3X+2Y=35”

If X=5 and Y=1O the result is

3X5+2X10=35.

* Such a set of rules is tg grammar

***PROPERTIES OF TG GRAMMAR***

* It can generate all well-formed sentences
* It needs the capacity to be applied more than once in generating a structure

EXAMPLE: THE DOG IS THAT CHASED THAT CAT

In the above-mentioned example, the second clause is needed to get it completed

EXAMPLE: THE DOG IS THAT CHASED THAT CAT THAT ATE THE CORN

* It proves that there is no end to recursion
* Grammar have to capture the fact that a sentence can have another sentence inside it which means ***embedding.***

***RULES IN TG GRAMMAR***

* TG Grammar uses
1. phrase structure (PS) rules
2. Transformational (T) rules
3. Lexical (L) rules
* The above-mentioned rules are there to generate a large number of sentences

***phrase structure (PS) rules***

* Basic phrase structure rule is

 S🡪NP+VP

 V-🡪V+NP

 NP--🡪ART+N

* The structure of the sentence will be

S------------🡪 NP+V+NP

 S----------🡪ART+N+V+ART+NOUN

***Lexical (L) rules***

1. Indicates the words to be used for **N, V, ART ETC**

**EXAMPLE:**

**N- BOY, GIRL**

 **ART- A, THE**

 **V- FOLLOWED**

Then the sentence will be structured as follows

 S->NP+VP

 S->NP+V+NP

 S->ART+N+V+ART+N

 S->ART+N+FOLLOWED+ART+NOUN

 S->ART+BOY+FOLLOWED+ART+GIRL

 S->A+BOY+FOLLOWED+THE+GIRL

***Transformational Rules***

1. Adverbs come at the end of the sentence with word order.

**EXAMPLE**: George helped Mary yesterday

1. Sometimes the word “Yesterday” can be moved to the beginning of the sentence,

**EXAMPLE**: Yesterday George helped Mary

From the above mentioned it is known that we need a set of rules to change constituents. This can be done by the tree diagram.

 S

 NP VP

 V NP ADV

 GEORGE HELPED MARY YESTERDAY

 S

 AD NP VP

 V NP

 YESTERDAY GEORGE HELPED MARY Y