**• First Functions-**

1. First (Program) = {Start}

2. First (Start-Symbols)= {@, ^}

3. First (End-Symbols)= {$ ,#}

4. First (ClassDeclaration)= {Ipok ,Sipok ,Craf ,Sequence ,Ipokf ,Sipokf ,Valueless ,Rational}

5. Class\_Implementation→ Variable\_Decl Class\_Implementation| Method\_Decl Class\_Implementation | Comment Class\_Implementation | require\_command Class\_Implementation| Func \_Call Class\_Implementation |em

6. First ( Method\_Decl)= { Ipok , Sipok ,Craf ,Sequence ,Ipokf ,Sipokf ,Valueless ,Rational}

7. First( Method\_Decl)= { Ipok , Sipok ,Craf ,Sequence ,Ipokf ,Sipokf ,Valueless ,Rational}

8. First (Method\_Decl)= { Ipok , Sipok ,Craf ,Sequence ,Ipokf ,Sipokf ,Valueless ,Rational}

9. First (ParameterList) = {em, None , Ipok , Sipok ,Craf ,Sequence ,Ipokf ,Sipokf ,Valueless ,Rational}

10. First (Non-Empty List)= { Ipok , Sipok ,Craf ,Sequence ,Ipokf ,Sipokf ,Valueless ,Rational}

First (Non-Empty List)’ = { Ipok , Sipok ,Craf ,Sequence ,Ipokf ,Sipokf ,Valueless ,Rational,em}

11. Variable\_Decl→ em | Type ID\_List ; Variable\_Decl | Type ID\_List [ID] ; Variable\_Decl

12. First (ID\_List) = {ID}

First (ID\_List)’ = {, em}

13. First (Statements)= {em}

First (Statements)’ = {Statement |em}

14. Statement→Assignment | If \_Statement | However \_Statement | when\_Statement | Respondwith \_ Statement | Endthis \_Statement|Scanvalur (ID ); | Print (Expression); |

15. Assignment→ Variable\_Decl = Expression; 16. Func \_Call → ID (Argument\_List) ;

17. First( Argument\_List) = {em ,ID, Number}

18. First( NonEmpty\_Argument\_List) = {ID,Number}

First (NonEmpty\_Argument\_List)= {(,) , em}

19. First (Block Statements)= { { }

20. First (If \_Statement)= { if}

21. First (Condition \_Expression)= {ID,Number}

22. First (Condition \_Op) = {&& , ||}

23. First (Condition)= {ID,Number}

24. First (Comparison \_Op) = { = ,! , > , > , < , <}

25. First (However \_Statement) = {However}

26. First (when \_Statement) = {when}

27. First (Respondwith \_Statement)= {Respondwith , return}

28. First (Endthis \_Statement)={ Endthis}

29. First (Expression) = {ID, Number }

First (Expression’ )= {Add\_Op ,em}

30. First (Add\_Op ) = {+ , -}

31. First (Term)= {ID, Number}

First (Term )’= {Mul\_Op’,em}

32. First (Mul\_Op)={\* , /}

33. First (Factor)= {ID, Number}

34. First (Comment) ={>,\*}

35. First (Require\_command) ={Require}

36. First (F\_name) →{STR}