	Dare
Expt. No Page No	
8	11 21 Cycle 2: Expt 5 MDL18CSO6C
	Malavika R. V
	AIM:
	To convert the BNF rules to runginize Roll No: 31
	a ratid variable which into VACC form and
	unite code to genuale abstract syntax tree.
	0
	Algorithm:
	O
1.	step 1: start
2.	Step 2: Include the header file.
3	Step 3: In the lex jule, belove be no as orlegue and
	assign it to be equal to "
4.	Step 4: Start the Int year with dularative section.
5.	Skps: In Wanslation rules define keywords, data
<u>J.</u>	types and Inlegal along with their actions.
6.	sup6: Start the main block. In main block
	their the statement.
7-	slep 2 : 1 della rative 2. assignment 3. anditional
12	4. if and else 5. While assignment.
8.	\sim 1 \sim 2 \sim 1 \sim 2
	block.
9	Step 9 In main program dulare the parameters arg c as not end + arg v 10 as char.
-1	arge as unt end + argv () as char.
10.	step 10: In main program open file in read.
[0,	mode.
11.	ps step 11: Point the output in a file.
	Result:
	Output was obtained succentuly. Teacher's Signature

Question 5

Convert the BNF rules into YACC form and write code to generate abstract syntax tree

Input:

```
main()
    int a, b, c;
    if (a < b)
       a = a + b;
   while (a < b)
       a = a + b;
   if (a <= b)
        c = a + b;
```

Output:

```
C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg6>a input.c
               Pos Operator Arg1 Arg2 Result
                      < a b t0 == t0 FALSE 5
               0
                                          t0
               2
                                          t1
                             а
                            t1
                                          a
                    GOTO
                                          t2
                          t2
t4
                                    FALSE 10
                                   FALSE 15
               11
                                          t5
               12
                             а
               13
                                          17
               14
                    GOTO
               15
                                         t6
               16
                             t6
```