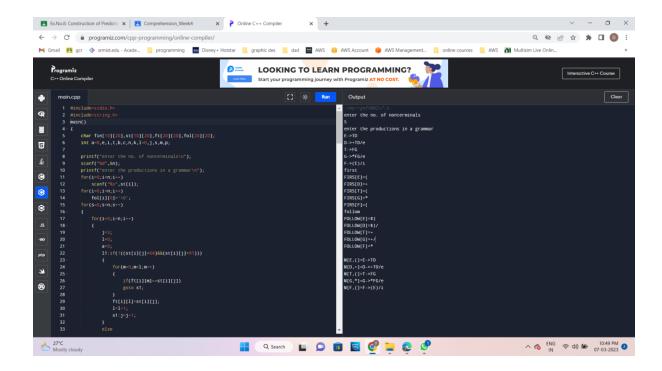
EXPERIMENT - 6 Dota 2010/13 PREDICTIVE PARSING TABLE AIM: To construct a program to implement the predictare parking table for the given grammar. ALGORITHM: 1. Start the program. a Initialize the variables given. 3. Get the up of coordinates and productions from the user. 4. Perform the follow for (each production A - x in 6) for (each terminal A in First (a)) add A -1 x to M[A,a]; if (E is in FIRST(x)) for (each symbol b is follow (A)) add A + x . to M[A, b] 5. Print the monthly stack. 6. Print if the gramman is correct or not a. End the program. PROGRAM CODE! A CH # include < sadio. h> stinded sting h> int mains 2 chat tin [10][20], st [10][20], tt [20][20], tol [20][20]: int a =0, e, i, t , b, c, n, x, L =0, i,s, m, p; points ("enter the up or productions in ");

```
scart ( "7.d", 2n);
prints ("enter ou productions in a grammas \n"):
  for (1=0; 1<n; i++)
   grant ( " y.s", S+[i]);
    for ( i = 0 ; i < n; i++)
     1011 = [0][i] bot
    for (s=0; 8<n;s++)
    & for (i=0) i<n; i++)
    -{ j'=3;
{ for (m=0; m<1; m++)
  ([[] []] +== [m][]+1) fi }
  80to S1; 2
( [1] [1] +8 = [1][1] +7
 1=1+1;
SI: ]=j+1; 7
else 9 if (5 >0)
     { while ( sa [i][i]! = S+ [a][o])
         9 a ++; &
           b=0;
       ('01' = [6] [6] + (10')
       I Horfm=p; m<1; m++)
          (CA)[CA] = = [m][i] A) & &
( & [ ( ) [ ( ) ] + ( ) [ ( ) ] ) +
```

```
1=1+1;
 32: b=b+1;4
while (st [I][]] = "10")
9 if (st [1][]] == 11')
 & j= j+1;
 Soto Lijy
 j = j+1; y
ft [i][i] = "10"; 3
printf ("first pas In");
tor (1=0;1<n;1++)
printy (" FIRST [ Y.C] = Y. S\n", S+[i][0], f+[i])
 fol [0][0] = '$';
 for (i= 0; icn: i++)
 { x=0;
     j=3;
 if (i==0)
   1=1;
  else
 K1: while ( (st[1][0]]=s+[H][j]) 48 ( K< n))
( 10/1==[13[x] ts.) ti &
([1-[][x]+2-=[0][1]+1]
(('01'=1[(3[x] +2))28('1'=1[(][x]+2)))i }
```

```
([i][x]+2== [m][i] log) +i
goto 9333
· [[] [x] +2 - [] [i] hop
1++;
95: P++3
 3 else
1 white ( at [K][)] ! = $1 [a][0])
fatt; y
  P=0; while (+1Fa)[p] [=1/01)
{ )+(f+(a)[p]!='e')
 { tox ( w = 0; w < T; w++)
 ([9][0] + == [m][i] Poq) 7 i }
sato 92;
3 for [i] [ 1] = H[a][p]:
 l= L+1; 4
elre
e =1;
92: 1++; 3
 92: p++; 3
Pf(e==1) 1
 e = 0:
 8040 ai; $ 3 3
 else [ a1 1 c= 0;
       a = 01
 ([0][6] te= [[0][4] te) shilos
   2 on++; 3
 =[[0][0] R) && ('011=![0][0] 101)) slidu
                                   (([0][i] +E
```

```
$ for (m=0; m<1; m++)
 ([0][0] tol = = [m][i] tol) +i &
  goto 91; 3
(Colled pop = Crolling pop
 80to 91; 3
 fol [i][1] = fol [a][c];
 1++;
 21: C++; 33
goto ki; }
 for [i][1] = 110'; 9
printf ("follow posto");
for ( i= 0 ; i<n ; i+1)
 (i) pot (o)[i] to the Last - [2.6] morrod, ) quild
Bust { (" (");
S = 0',
for (1=0; 1<0; 1+1)
子 j=3%
   while (s+[i][i]!='10')
(( == = 1) 11 ( == 11) +,1 }
{ for ( p=0') p <= 2') p++)
 ¿ ; [4][i] tz=[9][2] nif &
· t = j';
tor (P=3 ) tost [1] [] [] 1 = 11) & & (S+[i][j]
2 fix[s] [p] = S+[i][j];
```



```
Output:
  enter no of productions
  5
  enter productions in a granman
   E-TD
   DA ITDIE
    THEG
   G-1 xFGle
   F -> (E) | i
   ALE LESS
 first pos
  1)=[7]76917
  PIPST [D] = +e
  FIRST [T] = (i
  FIRST [GJ = XC
 (1) = [7] TESIA
tollow Pas
FOLLOW(E) = $)
 (4. = [0] mottod
FOLLOW(T) = + $)
COLLOW [G] = + 18)
FOZLOW [F] = 4+4)
M(F, C) = F - TD
 MTE, IJ = FATD
M[D,+] = D - +TD
M(D, 4) = 0 se
MEDIN = Dae
M (+, i) = T-> FG
M[G,+] = G++F6
M[9,+] = 6 -10
```

```
fin [s] [P] = 1/01;
('9' = = [+] (i) +2) $i
& b=0',
  a=0;
 (CO)[1] +2 = ! [0] [0] +2) Studen
Jatt) }
(1011-1[d][0] 104) ships
[ [0] [i] RE, " (1 E, V = [ ) . V. ] M" ) Haing }
    for [a] (b], fin [3]);
  b++; 44
(((P> [+][i] +2) & & (N& < [+][i] +21) !)
[HEI] AS, [O] [1] to, "1 2.1 = [3.1, 3.1] M") ++ning
        fin[8]);
else & b = 0;
     While (st [a][a] != 94 [i][3])
 {a++; }
 While ( + [ a] [ b] ! = 1 (01)
 [1] PR, "12.V=[3.V,] M") Horing B
   ft [a] [b]; fin [s]).
  b++; 39
  5 ++ ; 3
  (川)==(17に14) 4に
RESULT: Hence predictive pensing table is consmeted for given gramman.
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