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LAB PROGRAM 2: Wite a program to convey-
a given valid parenthesized infix arithmetic
explession to postfix expression. The expression consists
operators + (plus), - (minus), * (multiply) and / (divide)
#indude (stdie h)
#include (string. h)
#include process.h>
 mt F (chae symbol)
   switch (symbol)
     case +:
     case '-1: return 2;
     Care '*':
     case'/': return 4;
     Case 'A':
               neturn 5;
     care '$'
      case (
                return o;
      Care '#': return -1;
default : return 8;
     default
```

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just 9 (char symbol)
3 switch (symbol)
      care +:
      Case '- ': return 1;
      (ase '*':
      care / : return 3;
       Case ' 1'
       case '$': return 6;
        case (" setuen 9;
        (ase') : return 0;
        default: return 7;
   void infix-poetfix (char infix [], char poetfix [])
   int top, i, j; char s[30];
   top = -1
   S[++top]='#';
    for (i=0; i<stren(wifix) ji++)
 dar symbol: infix [i];
while (F(s[top])> 9 (symbol))
    postfix[j]=s[top--];
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'f (F(s[top]) 1 = G(symbol))
  s [++top] = symbol;
   top -- ,
 while (s[top]!= "#")
   postfix [j++]= s[top--];
    postfix [j]= '\0';
   void main ()
    char infix[20];
    char postfix [20];
    clasce;
prints ("Enlir the valid infix
                                      expression \n");
     scary ("%s", infix);
     Infix-postfix (infix, postfix);
     Prints (" the postfix expression is In");
     print ("0/0 s /n", postfix);
      getch ();
```

OUTPUT :-Enter the valid infix expression (1+2)* 314-5 The postfix expression is: 12+3*4/45Enter the valid infix expression (1+2)*3/4-5 the postfix expression is :12+3*4/5-

[Program finished]