classmate
LAB-2 PROGRAM
war to convert a given valid examen and
The expension to south x expension
anen consists of single chargestern
+ (shi) and the leinary operators
WAP to convert a given valid express parenthesized infix anithmetic expression to postfix expression. The expression consists of single character operations + (plus), - (minus), * (multiply) and/(divide)
include <stdio.h></stdio.h>
include < string. h>
#include < stalib.h >
O. VW. D. I.
int F (chan sumpled)
int F (chan symbol)
switch (symbol)
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case't':
case '-': return 2;
case * *:
case '/': return 4;
case'n':
case '\$': returns;
case '(': returno;
case '#': return-1;
default : return 8;
}
1 + (/ 0 0 1)
int G (chan symbol)
switch (symbol)
5
case'+':
case '-': return 1;
(we 80mm 1,

```
case'/': return 3;
  case'n':
  case'$': return 6;
  case (1: rotum 9;
  case )' : return o;
  default : return 7;
void infix - postfix (chan infix[], chan postfix[])
  chan s[30], symbol;
  top = -1;
#05[++ top] = 1#1;
              i < strlen (infix); i++)
   symbol = infix
     (F(s (top])! = G(symbol)
s [++ top] = symbol;
    while (s[top]! = '#1
```

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int c1=0; c2=0;

printf("Enten the valid infix expression: \n");

scanf("/.s", infix);

for (int k=0; k < s+rlen (infix); k++)
      che if (infix[k] = = ')')
     printf("Invalid infix expression!");
infix-postfix (infix, postfix);
mintf ("The postfix expression is: \n");
printf ("/·s \n", postfix);
```