ADITHI GURIMAS) classmate 1 BM19 CS005 Lab pengram - 2 Hindude ( stdio h > Hindude & String. h int main () char stack[20], jexp[50], pexp[50], inti, p=0, 8=-1; 1, 7=1, operands =0, operators =0 obrackit =0, also chracket=0; paint ("enter the expression in"). Scan (" % 8", iexp); for W= 0; C & stalencierp); i++) i) (iexpci)== '+' |liexpci)== 1-1 |liexpci)== 1+' |liexpci] == '/' | \ iexpri] == '+' | \ iexpri]== 'A') operators ++: 1 ((cexpsi) > 1 5 8 8 i expli) (= 90) 11 (iexpli) >= 97 88 iexpsi) operande ++ if (iexpli) = = '(') obracket ++; 4 (iexpri] == ')') chracket 1+; if Coperandy = Coperators +1) 11 Obracked 1 = chracked) or (i=0; is strlentiexp); it+) if (Cicepris 765 && icepris (=90) | (iexpris)=97 && Cexp(1) (= 122) pexpcp) = iexpsi]; Pt+;

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else i) ( c'expti]== '('
      Stack[1]: icxp[i]
   Ciexpli-1]== '+' || iexpli-1]== '-' || iexpli-1]== '+' |
| iexpli-1]== '+' | liexpli-1]== '+' |
PexpCPJ = Stack[8]
      stack[8] = jexpsij
              stack(s)= iexptij
                                        Scanned with CamScanner
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Scanned with CamScanner

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stack Es] = cexpcij;
  iexpri] == (* 11 rexpri] == '+' | stack[8] == '-'
   Stack [8]= iexpa]
```

Scanned with CamScanner
Scanned with CamScanner

```
Stack [s] = iexpai]
 $\frack(8)=='('|| \tack(8)=='+'|)
\stack(8)=='-'|| \s==-| || \tack(8)=='*
  11 Stack[8] == '/'
    Stack [8] = iexpail
        if ( Stack Cs] == '+' | | Ntack Cs) == '- ' |
     Stack (6) == ( ) [ stack (6) == (+1) | stack (6) == 1)
       Stack[s]: iexpa]
       PexpCPJ: Stack [8]
    stack[8] : iexpri]
          Pexpar: Stackar.
```

Scanned with CamScanner Scanned with CamScanner while (\$!=-1);

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if (2==0)

paintf (" Invalid expression (n");

else

E paintf (" The postfix experission is '\n");

for (i=0; i < p; i+1)

E pointf (" % C", pexp(i));

3

3 return 0;

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