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LAB 3		
	NAME	CHIRAG
CoDE:	USN	1 BM19 c5039
#include <stdio.h></stdio.h>		
#include <etdlib.h></etdlib.h>		
#include <ctyle.h></ctyle.h>		
#include <ctype.h> #include<string.h></string.h></ctype.h>		
#define SIZE 100		
char stack[SIZE];		
int toh=-1;		
void puch (char item)		
of guarde from		
if (tol 7=SIZE-1)		
₹ ·		
printf ("In Stack Querflow.");		
<b></b>		
else		
4		
top=top+1; Stack[top]=item;		
3 (tem;		
}		
Char pop()		
4		
char ikm;		
if (type < 0)		

```
if (+++<0)
     printf("Stack under flow: invalid infix expression");
      getchar ();
else
     item = Stack (top).
     toh = toh -1
     ereturn (item);
    if (symbol == '^' || symbol == '*' || symbol == '1' || symbol == '+' ||
                                                           Symbol == '- ')
      elseif (symbol == 'x' || symbol == '1')
```

CHIRAG

```
PEO22PIMBI
            enturn (2);
       else if (symbol == '+1 || symbol == '-')
          eaturn (1)
       else
          return (0);
Void InfixToPostfix (char infix_exp[], char postfix_exp[])
     int i,j;
     char iten;
     push ('(');
      streat (infix_exp,");
      item = infix exp[i];
     while (item != '\0')
          if (item=='(')
           else if (is digit (item) | isalpha (item))
```

```
Postfix_exp[j]=item;
else if (is_ govator (item)==1)
      x=pop();
      while (is_operator(x) == | AP precedence(x)>= precedence (item))
          postfix_exp[j]=x;
          x = pop();
else if (iten == ')')
    X=pop();
    while (x!='(")
         postfix_exp[j]=x;
         x= pop();
else
     Print ("In Invalid infix Expression. \n");
     get char ();
     exit(1);
```

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