5/10/24	
\$110.2	
2)	Infin to Postfin enpression, given the expression should contain Dinary operators +, -, +, /
	Pseudo Code
B	Declare index, for, top, length as int Declare significal, temp as about Declare infin [30], postfin [30], stack [30] as strong
	Function infinitopostfix () set length = length of infin call fush
	entile enden < length symbol = enfin (inden)
	case 's' = call push (sephlol) case 's' = temp = call pop() euhile stemp! = '('
	fostfin [fos] = temp increment fos temp = call pop ()
	end enhile call push (symbol) defoult: postfin [pos] = symbol inocement pos
	end switch invanent index and suchite

while top > 0 temp = call pop () postfix [pos] = tenp fort+ end eufile postfin [pas] = 10' end Junction Void frush (char segmbal) toh ++
stack [toh] = sepulal toh ++ show pop () char sepul = stack [top]; scotwen symb ent precedence (char symbol) { ent P; suitch (symphol) case '1' : 8=3 case '+', '-' = P=1 case (1 = P = 0 ease # = P = -1 end switch end function

```
Code:
# include < stdie - h>
# include < conio. h>
# include < string. h>
int index = 0, hos = 0, top = -1, length;
char symbol, temp, infin [30], postfin [30],
void inhintopostfin ();
Void presh (char segnitial);
char pop ();
int precedence (char signs);

int main () {

print ("Enter infine enpression: \n");

soant ("0105", infin);
infintopostfin ();
print f ("In Infin enpression: \no%s", infin);
print f ("In Postfun enpression: \no%s", postfun);
return 0;
   infintopostfin () {
Void infinito host fin ()
 length = strlen (infine);
 push ('#');
 while (index < length) {
 symbol = infux (index);
```



```
suitch (symbol) {
   fresh (symbol);
     temp = pop ();
  enfile (temp!='(') {
    postfrin [ pos ++ ] = temp;
     tenh = hop ();
    Deeak :
   case '1':

case '1':

entitle (precedence (stack [ top ]) > = precedence (symbol) {
    postfin [ hos ++] = temp; ]
  push (symbol);
 default:

postfun [pos++] = symbol; }

inden ++; }
ruhile (top >0) {
 temp = pop();
 postfin Chas++] = temp; }
2 postfin [ pos] = 10';
```

```
Void push (char symbol) {

top = top + 1;

stack [ top 3 = symbol;
char pop () E
 char symb = stock [top];
   rotern syml;
 int precedence (char symbol) {
 sentch ( sepulal) {
  case 11': P=3;
    case 1/: 9=2
    xase +1:
    case /; P=1;
    Lase C'i P=0;
     break;
case '#': P=-1;
notwon P;
Output /
Enter/infin enpression
 a / bc- d + e(f (g+h)
 Postfix enpression
a6c 1-ef 1gh+1+
```