Register No: 20131A0464 Ex	periment No :	Date: 86 23	
S:NO Component Pruparudnus	Max. Marks	Marks Secured	
1/1/10 -0/000	. 2	2	
2 expoument	3	2	
4 Analysis & Record	3	3	
Total	10	6	
Date 10/6/22	Signativu of -	8	
a) write a perogram to infine to postfire conversion.			
Aim: To write a priogran	of at sixfue at n	islfix convoision	
Program: #include <stdio.h></stdio.h>	Struct stacks;		
# undude < conio h>	Charre, t	aken'	
# include < ctype.h>	inti,j;		
# define MAX50	(85);		
Struct Stack	jou(i=0; infini[i]='\0', i++)		
int data [MAX];	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
int top;	taken = infix[i];		
2	if (is a Irum Hoken)]		
int percentage (char);	postfire (i++ J) = token:		
vaid writ (Struct Stack *);			
int empty (shout stack*)	t empty (stouch stack*); y (token = = 11')		
int full (Struct Stack 4)	·	push (&s('));	
Int pop (Struct Stack*);	else		
Vaid push (Street Stack *;	it), if (token ==(1)		
int top (struct stack +);	while ((x= pus(&s))='1'		
Vaid infox - to- push (chax i	nfoo (), post	fixe [] ++] = x;	
Char past for C	J), else	· · · · · · · · · · · · · · · · · · ·	
Vaid infix-lo-postfix (chan i	infur (7, {		

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Date: 86 20
 \sqrt{(s \rightarrow top = = -1)}
  retwin (i);
 return (o);
 if (s → top == ruxx -1)
 Itelwin (o);
 Void push (struct, struct+s, cntx)
S → top = S → top+1;
S -> data [S -> top]=x;
int pop (struct Stack 45)
 re= s → data [s → top];
 s -top= s-top-1)
 int top (struct stack +s)
 outwin (s → data (s → top));
 char untf [30], postfix [30];
pountf(" entor an infic exp");
infine - to-postfine (infine, postfine).
pount f("In postfix oxp": 1.5", postfix);
```

oldwin (1);

int re;

retwort);

Vaid main ()

gcts (infue);

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register No:
                               Experiment No:
                   464
 while (priece dence (token) <- pricadence
        top(85) 821, cmpty(85))
      1x= bob(8e);
     post fix [fit] - x;
    push (85) token);
    while (! empty (as))
     x= pop (&s)
  post for [j++] = x;
  'post fine[j]= 'lo';
  int precedence (Charry)
  int (x = = '\')
  orcturn(o);
  il (x = = '+'|[x =='-')
  oretwin (1);
  y (x== | 1x1 | 1x = 1.1.1)
   return(2);
   4 (x=='n1)
   Jillwin (3);
   vaid (init (struct stack+s)
    S \rightarrow top = -1;
    int empty (struct stack +s)
```

Date: 8/6/22

S → lop = -1.

init (struct stack +s)

if (s → top = = -1) rictury (1) clse oretwin (o); int full (struct stack +s) if (s → top = = mxx-1) netwin (1); else oretwin lo); void push (struct stack 45, int $S \rightarrow top = S \rightarrow top + 1$ s -> data [s -> top] = x; int pop (struct stack +s) int 2', 2: S → data [S → top]; S -> top = S -> top -1; retwinke; int main ()

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Register No:
                            Experiment No:
                   <del>646</del>464
                                                      Date:
                                             05
    stack s;
   char x;
   int op 1, op2, value,
   mit (8s);
   printf ("enter the expression In single digit operand &
       oporation only);
   while x = getcha (); = 'ln');
      (is digit(x))
     push(85, x-48):
   else
    Op2 = pop( &s)
     op2 = pop(25)
    val= evaluati (x, Opi, Opz);
   push[&S, val];
   Value = pop(8s);
                volue of expression = 1.d", value);
   pountf ('In
    orcton D,
```