Experiment Name / No.:3	Camlin   Page No. 9
IMPLEMENTATION OF STACK	
AIM	
write a neny curiven program	is implement
5 Stack using 1-D array. 0	
A	
ALOURITHM	
1 Sterre	112 610 6
a Display the sauk new and a	
3 St user seleus pun.	
3.1 Ask the user to enter the elem	ent he wants
ko push	
3.2 call the buncheon push () with th	e clement
15 as parameter.	
4 To wer selects pop	
9. 1 call one popl/bunesson	
5 to user selects peck	
5.1 call the press () buneron	,
6.1 (all use display () bunicion	
7 Stop	
-> push () burnision	
1. seart	
205 Nb top = = SIZĒ -1	
2,1 print maye is bull and e	sut
Teacher's Signa	ture:

Experiment Name / No.: Camlin   Page No. Date			
	, ,		
3 else:			
3.1 moremen cop by			
3.) May [top] = DC			
5 3.3 Desplay nessage showing purs	s su	ressoul	
4 Stop			
-> POP() buniaron			
1 Start			
20 IG top = -1			
2.1 Display undersow !! Stack 6	mi	]	
3.1 Durning Stack (top) as perped	elem	en 1.	
3.2  top = cop -1		<i>5</i> <b>V</b> O C	
4.15 SEOP			
-> Peek () Gunusion			
1. Start			
2 16 top = -1			
20 2.1. Disney underblow!! Stay	c em	pcy	
3 else			
3.1 Duspeay struck (kop) as elemen	no ou	COP	
4. Stop			
-> dusplay () buncon			
1 Steve			
Teacher's Signatu	ure:		

Experiment Name / No.: Camlin   Page N			
	Date		
2 No two = $-1$			
2.1 print underblow! Stack emp	f:M		
3 traction else			
5 3.1 mitualise i w top			
3.2 Repeat while is -1			
3-2.1 print mack (i)			
B. 3-2-2 decrement i by 1			
4 Sup.			
10			
CONCLUSION			
The program has been escented	correctly and		
output has been veribled.			
15			
20			
25			
Teacher's S	Signature:		

	experiment Name / No.: 4 Camlin / Page No. 12				
Experin	Tent Marine / No.,	Date	1	1	
=		, ,			
_	POSTFIX CONVERSION & EVALUA	TION	1		
	AIM "Para large and and a series and a seri				
	write a program w convert me	orsc	escp	ression	
5	into postoise and evenue and				
	expression.	,			
	ALGORITHM				
1	Start				
200	make the user select between com	versi	m	8	
	evaluemon of posible expression	•			
3	It conversion:				
	3.1 input the moix expression bro	m tn	e u	svr.	
	3.2 call the InvisiToPosibis() bunitur	o a	nel		
15				<b>ク</b> C	
	3.3 Display possesse as possesse escar				
4					
	\$4.1 call the every bunction.				
5					
2					
->					
1.	Start				
2		sh (	)		
3		Scor	esso	on	
42		v m	eres (	exp[i]	
5					
	Teacher's Signat	ure:			
1					

Experiment Name / No.:	Cam	lin  Page	No.	3
	Date	1		
	1	,		
5.1 lb wem = (()				
5.1.1 push (um)				
5.2 16 rem is chique or a letter				
5 5.2.1 possoux_exp(j) = vem				
5.2.2 j = j + 1				
5.3 No Mem 12 operawr ()				
5.3.1 DC = POP()				
5.3.2 while (is_opermor(x) == 1 22 preced	enu (x	)>=		
10	rece	eleng	2 ( u	em)]
3.3.2.1 poswise_escp(i) = >(				
5.3.2. j = j+1				
5,3,2,3 SC = POP()				
5.3.3 push (>C)				
15 5.3.4 push ( utem)				
5.4 16 mm = 'J'				
5.4.1x = Pop()				
5-4.2 while ( X != '('				
5.4.2.1 possousc_escp(j) = x				
S.4.2.2  j = j+1				
5.4.2.3 x = popl)				
5.5 else				
5.5.1 prine invalid expression	n			
6 6-6 i=i+1				
725 52 rem = moisc_escp(i): 8 58 possoisc_escpression(j) = 10'				
8 5-8 positise_expression (j) = 10'				
Teacher's Signa	ture:			

Experiment Name / No.: Camlin   Page No.   Date			No. 14	
$\overline{1}$				
9.	SLOP			
- (1				
->	Purs () buncoun			
15	Start			
2	accept the plan to be inserted inc	va	ow	uable
	Stem			
3	16 KOP ) = SIZE-1			
,	3.1 prime seach overbean			
410	clse			
	9.1 top = top +1			
	4.2 Stack (top) = item			
5	Sup			
> <sub>15</sub>	Dop () buncuon			
1	Start			
2				
_	2.1 print underblow			
	2.2 escit			
321				
	3.1 nem = scack [cup]			-
	3.2  top = top - 1			
<u></u>	3.3 print wen as poped elemen	<u> </u>		
4	Swp			
2	5			
	Teacher's Signatu	ıre:		1

experiment Name / No.:			
-) is-operator () bunuson			
1. Start			
2 accept the character to be chesse	es lot a		
5 variable symbol.			
3 16 Sympol = 1 or * or / or	+ or -		
3.1 return 1			
4 else			
4.1 recovers O			
Stop			
-> precedence () bunceson			
I so accept the chevracter to be the	ised min		
the bound variable symbol.			
245 No symbol = 1			
2.1 return 3			
3 16 symbol = # or /			
3.1 return 2 4 w symbol > + or -			
5 else			
5.1 return 0			
-> evamence () bunchun			
bs Start			
a ask user to enter the positions	escpression		
Tracket 61	dustrite.		
Teacher's Si	gnuto/c		

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	Date	1	

$\overline{}$	
	mo
	and input " the variable possibist esip
3	Bepear while possess = escp [i]! = 0
	3.1 lb posibisc_escp (i) is alpha
5	3.1.1 ask the user to enter the value of the
	variable and input it into num
-	3-1.2 rush (num)
	3.2 else
	3.2.1 n1 = nop()
10	$3.2.2 n_2 = pop()$
	3-2-3 is possesse-eval (i) = o +'
,	$3.2.3.1 n_3 = n_1 + n_2$
	3.2.4 it pertois(-eval(i) = '-'
	$8.2.4.1 = 0_2 - 0_1$
15	3.2.5 re possesse_eval(i) = (*)
	$3.2.5.1 n_3 = n_2 * n_1$
	3-2-6 rosebisc_eval(i) = '/'
	$3-2-6.1  n_3 = n_2/n$
	3.2.7 push (n3)
20	3.3 morement i by 1
4	print- pop() as the result of the escprusion
5.	Stop
	CONC LUSION
25	The program has been executed correctly and
	output has been veribled
	Teacher's Signature: