

else if (Cpush == '(')

 push(cexp);

else if (Cpush == ')')

 while (Cpush ==

 { while (cexp(x == bopc) !=))

 { pop();

 }

 else if (Priority[stack[top]] >= Priority[cexp])

 {

 pop();

 push(cexp);

 }

 cft

}

~~W~~

while (if (top == -1))

{

 while (~~stack~~[(top)] != -1)

 { pop();

 }

Pf (x = j)

~~Print~~ print res

Cls,

invalid

}

WEEK 2

] WAP to convert a given valid parenthesized infix arithmetic expression to postfix expression consists of single character, operands and binary operators

+ (plus), - (minus), * (multipl.) and / (divide)

write the pseudocode in your observation and get it corrected from your batch faculty.

STACK SIZE = 20, top = -1

push (int x)

{

stack [top] = x;

}

pop ()

{

~~if stack[0] top = 1 then return -1~~

else

return top--;

Priority()

{

if ('(') then return 0

if ('+' or '-') then return 1

if ('*' or '/') then return 2

main() exp

{ for i in strtonl

if (exp[i] == '(')

 k = 0

else if (exp[i] == ')')

 j = 0

 while (exp[i] != null)

{

 if (exp[i] is alnum(exp))

{

 newexp[i+j] = exp

else if (c == exp[i])

push(exp);

else if (c == ')')

while (top ==

{ while (exp[x == top]) !=))

{ pop();

}

else if (priority(stack[top]) >= priority(exp))

{

pop();

push(exp);

}

else

{

while (if (top == -1)

{

while (stack[top] != -1)

{ pop();

}

arrow pointing from here to Pf (x=j)

Pf (x=j)

print res

else

invalid

{

Code

```
#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <string.h>

char stack[20];
int top = -1;
int count1 = 0, count2 = 0;
void push(char x)
{
    stack[++top] = x;
}

char pop()
{
    if (top == -1)
        return -1;
    else
        return stack[top--];
}

int priority(char x)
{
    if (x == '(')
        return 0;
    if (x == '+' || x == '-')
        return 1;
    if (x == '*' || x == '/')
        return 2;
}

int main()
{
    int j = 0;
    char exp[100];
```

```

char res[100];
char *e, z;
char
printf ("Enter the expression : ");
scanf ("%s", exp);
printf ("\n");
e = exp;
int k = strlen(exp);
printf ('\n');
e = exp;
int k = strlen(exp);
for (int i=0; i<k; i++)
{
    if (exp[i] == '(')
        count1++;
    else if (exp[i] == ')')
        count2++;
}
while (*e != '\0')
{
    if (isalnum(*e))
        res[i++] = *e;
    else if (*e == '(')
        push (*e);
    else if (*e == ')')
        {
            while ((z = pop()) != '(')
                res[i++] = z;
        }
    else
        {
            while (priority(stack[top]) >= priority(*e))

```

```

    res[j++]=pop();
    push(c);
}
e++;

}

while (top!=1)
    desc[j++]=pop();

if (count1==count2)
    printf("%d", res);
else
{
    printf("Invalid expression\n");
    exit(0);
}
return 0;
}

```

OUTPUT

Enter the expression : ((8+3)/4)-1)
 83+4/1-

Re
run