**Infix to postfix using Stack.**

**Program:**

#include<stdio.h>

char stack[20];

int top = -1;

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()

{

char exp[20];

char \*e, x;

printf("Enter the expression :: ");

scanf("%s",exp);

e = exp;

while(\*e != '\0')

{

if(isalnum(\*e))

printf("%c",\*e);

else if(\*e == '(')

push(\*e);

else if(\*e == ')')

{

while((x = pop()) != '(')

printf("%c", x);

}

else

{

while(priority(stack[top]) >= priority(\*e))

printf("%c",pop());

push(\*e);

}

e++;

}

while(top != -1)

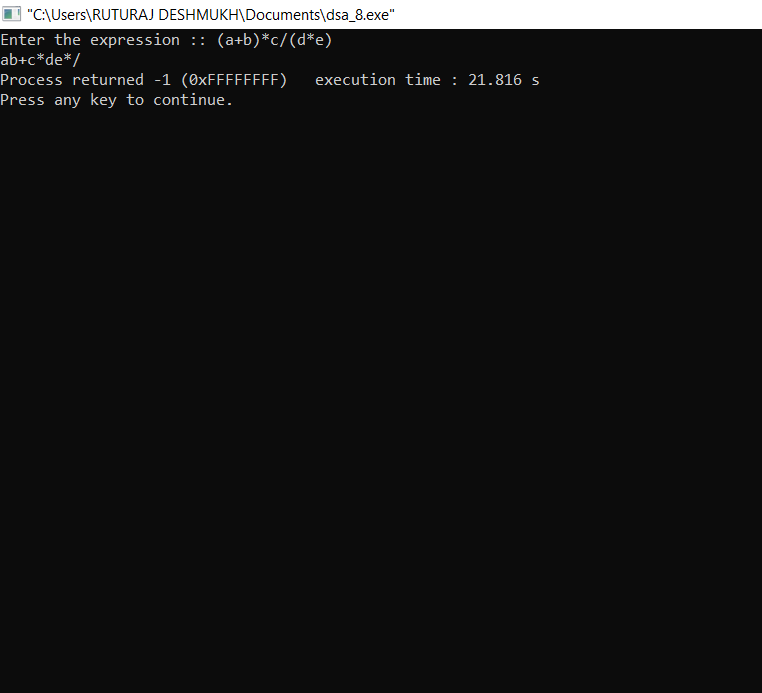
{

printf("%c",pop());

}

}

**Output:**

****