**Practical -: C Program to Convert Infix to Postfix using Stack**

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**Code -:**

**#include<stdio.h>**

**#include<ctype.h>**

**char stack[100];**

**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;**

**return 0;**

**}**

**int main()**

**{**

**char exp[100];**

**char \*e, x;**

**printf("Enter the expression : ");**

**scanf("%s",exp);**

**printf("\n");**

**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)**

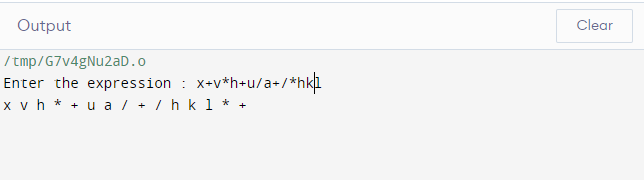
**{**

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

**}return 0;**

**}**

**OutPut -:**

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