Program to convert Infix to Postfix:

#include<stdio.h>

#include<ctype.h>

#define size 50

char S[size];

int top = -1;

push(char elem){

S[++top]=elem;

}

char pop(){

return(S[top--]);

}

int pr(char sym){

if(sym =='^'){

return(3);}

else if(sym == '\*' || sym == '/'){

return(2);

}

else if(sym == '+' || sym == '-'){

return(1);

}

else{

return(0);

}

}

void main(){

char inx[50], pox[50],ch,elem;

int i=0, k=0;

printf("Enter infix expression: ");

scanf("%s",inx);

push('#');

while( (ch=inx[i++]) != '\0'){

if( ch == '(')

push(ch);

else

if(isalnum(ch)) pox[k++]=ch;

else

if( ch ==')'){

while(S[top] != '(')

pox[k++]=pop();

elem= pop();

}

else{

while(pr(S[top]) >= pr(ch))

pox[k++]=pop();

push(ch);

}

}

while ( S[top] != '#'){

pox[k++] = pop();

pox[k]='\0';}

printf("\n Postfix expression = %s\n",pox);

printf(“\n DISHA D S, 1BM23CS094”);

}

