INFIX TO POSTFIX

op=set(['+','-','\*','/','(',')','^'])

pri={'+':1,'-':1,'\*':2,'/':2,'^':3}

def i\_p(exp):

stack=[]

output=''

for ch in exp:

if ch not in op:

output+=ch

elif ch=='(':

stack.append('(')

elif ch==')':

while stack and stack[-1]!='(':

output+=stack.pop()

stack.pop()

else:

while stack and stack[-1]!='(' and pri[ch]<=pri[stack[-1]]:

output+=stack.pop()

stack.append(ch)

while stack:

output+=stack.pop()

return output

exp=input("Enter infix expression: " )

print("Infix expression : ",exp)

print("Postfix expression : ",i\_p(exp))

OUTPUT:

Enter infix expression: a+b\*(c^d-e)^(f+g\*h)-i

Infix expression : a+b\*(c^d-e)^(f+g\*h)-i

Postfix expression : abcd^e-fgh\*+^\*+i-