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

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

def infix\_to\_postfix (expression):

stack=[]

output=''

for ch in expression:

if ch not in operators:

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 priority[ch]<=priority[stack[-1]]:

output+=stack.pop()

stack.append(ch)

while stack:

output+=stack.pop()

return output

expression=input("Enter infix expression:")

print("Infix expression:",expression)

print("Postfix expression:",infix\_to\_postfix(expression))