```
shunting_yard.py
 Mar 06, 12 20:17
                                                                         Page 1/1
def isoperand(tok):
    try:
       float(tok)
    except:
       return False
    return True
def isoperator(tok):
    return tok in {"+", "-", "*", "-"}
def priority(tok):
    if tok in {"+", "-"}:
       return 1
    elif tok in \{"*", "-"\}:
       return 2
    else:
        raise ValueError("Not a operator")
def shunting_yard(stack, tokens):
    output = []
    for tok in tokens:
        if isoperand(tok):
            output += tok # print
        elif isoperator(tok):
            while stack and stack[-1] != "(" and \
                    priority(stack[-1]) >= priority(tok):
                output += stack.pop()
            stack.append(tok) # push
        elif tok == "(":
            stack.append(tok)
        elif tok == ")":
            while stack[-1] != "(":
                output += stack.pop() # pop und print
            stack.pop() # linke Klammer ignorieren
    while stack:
        output += stack.pop() # pop und print
    return output
stack = []
expr = input("Ausdruck:")
import re
tokens = re.split((\langle d | (| ) |) , expr)
tokens = [tok for tok in tokens if tok != ""]
print(shunting_yard(stack, tokens))
```