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import math

f = open(r"main.py", "r")
text = ""

while True:
    line = f.readline()
    if not line:
        break
    if "#" in line or "print" in line is True:
        continue
    text += line

f.close()

def remove_chars_from_text(txt, chars):
    return "".join([ch for ch in txt if ch not in chars])

text = text.lower()
text = remove_chars_from_text(text, "\n\t\xa0\x0c")

text_tokens = dict()

def shannon(txt):
    for d in range(1, 20):
        summa = 0
        for i in range(len(txt) - d + 1):
            if text_tokens.get(txt[i:i + d]) is None:
                text_tokens[txt[i:i + d]] = 1
                summa += 1
            else:
                text_tokens[txt[i:i + d]] = text_tokens.get(txt[i:i + d]) + 1
                summa += 1
        if d == 1:
            max_h = math.log(len(text_tokens), 2)
            print("max_h = ", max_h)
            h = 0
            for value in text_tokens.values():
                h += (-1) * (value / summa) * math.log(value / summa, 2)
            h /= d
            print(f"h{d} = {h}")
            text_tokens.clear()

shannon(text)

```

