input\_file = "preproinsulin-seq-clean.txt"

output\_file = "lsinsulin-seq-clean.txt"

with open(input\_file, "r") as f:

text = f.read()

print("\n", text, "\n")

insuline\_list = list(text)

#print(insuline\_list)

lsinsulin = insuline\_list[:24]

#print(lsinsulin)

#print(len(lsinsulin))

lsinsuline\_seq\_clean = "".join(lsinsulin)

# print(lsinsuline\_seq\_clean)

print("The first {} amino acids are:".format(len(lsinsulin)), lsinsuline\_seq\_clean)

mes = lsinsuline\_seq\_clean

with open(output\_file, "w") as f:

f.write(mes)

# ----------------amino acids 25–54------------------------------------------------

in\_file = "preproinsulin-seq-clean.txt"

out\_file = "binsulin-seq-clean.txt"

with open(in\_file, "r") as f:

text = f.read()

binsulin = insuline\_list[24:54]

# print(binsulin)

print("This is a sequence of", len(binsulin), "characters.")

binsuline\_seq\_clean = "".join(binsulin)

print("The next {} amino acids are:".format(len(binsulin)), binsuline\_seq\_clean)

message = binsuline\_seq\_clean

with open(out\_file, "w") as f:

f.write(message)

# ----------------amino acids 55–89------------------------------------------------

in\_file = "preproinsulin-seq-clean.txt"

out\_file = "cinsulin-seq-clean.txt"

with open(in\_file, "r") as f:

text = f.read()

cinsulin = insuline\_list[54:89]

# print(ainsulin)

print("This is a sequence of", len(cinsulin), "characters.")

cinsuline\_seq\_clean = "".join(cinsulin)

print("The next {} amino acids are:".format(len(cinsulin)), cinsuline\_seq\_clean)

message = cinsuline\_seq\_clean

with open(out\_file, "w") as f:

f.write(message)

# ----------------amino acids 90–110------------------------------------------------

in\_file = "preproinsulin-seq-clean.txt"

out\_file = "ainsulin-seq-clean.txt"

with open(in\_file, "r") as f:

text = f.read()

ainsulin = insuline\_list[89:]

# print(ainsulin)

print("This is a sequence of", len(ainsulin), "characters.")

ainsuline\_seq\_clean = "".join(ainsulin)

print("The last {} amino acids are:".format(len(ainsulin)), ainsuline\_seq\_clean)

message = ainsuline\_seq\_clean

with open(out\_file, "w") as f:

f.write(message)