## **Quality Filtering**

- Programming Language
- Statistic Number
- Metric Threshold
- Keyword Search

# Sum numbers from 1 to 10
and print the result
total = sum(range(1, 11))
print(total)

#### **Raw Corpus**

















#### **De-duplication**

- Exact Match
- Similarity Metrics
- Function Level

total = 0
for i in range(1, 11):
 total += i

total = sum(range(1, 11))

## **Privacy Reduction**

- Detect Personally Identifiable Information (PII)
- Delete PII

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#### **Tokenization**

- Open Source Tokenizer
- SentencePiece
- Byte-level BPE

inputs = tokenizer.encode(["def
print\_hello\_world():",...],
return\_tensors="pt").to("cuda")

# **Pre-training Database**





[755, 1194, 97824, 32892, 4658], [755, 4062, 18942, 11179, 997, 262, 4304, 10442, 264, 1160, 315, 5219, 304, 36488, 2015, 1701, 279, 17697, 6354, 371, 12384,...],...