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###Lab: 04
                                              Date:18.02.2022
###Program No.:04
###Program Name: Write a Python Program to find Inverted Index.
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# ROLL : UG/02/BTCSE/2018/005
#CODE:1
# Collection of documents
D1="I play tennis everyday"
D2="Everyday I go to play cricket"
D3="I like cricket and tennis"
D4="Dhoni won the world cup"
D5="I love a cup of tea everyday"
docs = [D1, D2, D3, D4, D5]
docs
     ['I play tennis everyday',
      'Everyday I go to play cricket',
      'I like cricket and tennis',
      'Dhoni won the world cup',
      'I love a cup of tea everyday']
# Gather the set of all unique terms
unique terms = {term for doc in docs for term in doc.split()}
unique_terms
     {'Dhoni',
      'Everyday',
      'Ι',
      'a',
      'and',
      'cricket',
      'cup',
      'everyday',
      'go',
      'like',
      'love',
      'of',
      'play',
      'tea',
      'tennis',
      'the',
      'to',
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'won',
      'world'}
# Construct an inverted index
# here as a Python dictionary for ease of interpretability
inverted_index = {}
for i, doc in enumerate(docs):
    for term in doc.split():
        if term in inverted_index:
            inverted index[term].add(i+1)
        else: inverted index[term] = {i+1}
inverted_index
     {'Dhoni': {4},
      'Everyday': {2},
      'I': {1, 2, 3, 5},
      'a': {5},
      'and': {3},
      'cricket': {2, 3},
      'cup': {4, 5},
      'everyday': {1, 5},
      'go': {2},
      'like': {3},
      'love': {5},
      'of': {5},
      'play': {1, 2},
      'tea': {5},
      'tennis': {1, 3},
      'the': {4},
      'to': {2},
      'won': {4},
      'world': {4}}
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