###Lab: 04   Date:18.02.2022
###Program No.:04

###Program Name: Write a Python Program to find Inverted Index.

#ANINDYA NAG
ROLL : UG/02/BTCSE/2018/005

#CODE:2

```python
d1 = "I love to play cricket".split()
d2 = "I love play cricket and football everyday".split()
d3 = "Dhoni was captain of cricket team".split()
d4 = "Dhoni won the world cup".split()
d5 = "I love a cup of tea everyday".split()



documents = [d1, d2, d3, d4, d5]
word_count = set(d1 + d2 + d3 + d4 + d5)


small_word = []
for i in word_count:
  small_word.append(i.lower())
terms = sorted(small_word)

invertedIndex = {}

for term in terms:
  for doc_idx, doc in enumerate(documents):
    if term in doc:
      if term not in invertedIndex.keys():
        invertedIndex[term] = [doc_idx+1]

      else:
        invertedIndex[term].append(doc_idx)

print(invertedIndex )
```
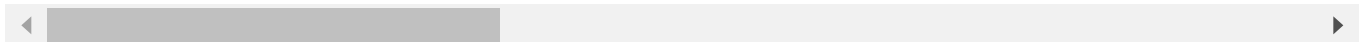
⤷   {'a': [5], 'and': [2], 'captain': [3], 'cricket': [1, 1, 2], 'cup': [4, 4], 'everyday':

✓ 0s   completed at 3:14 PM   ● ✕