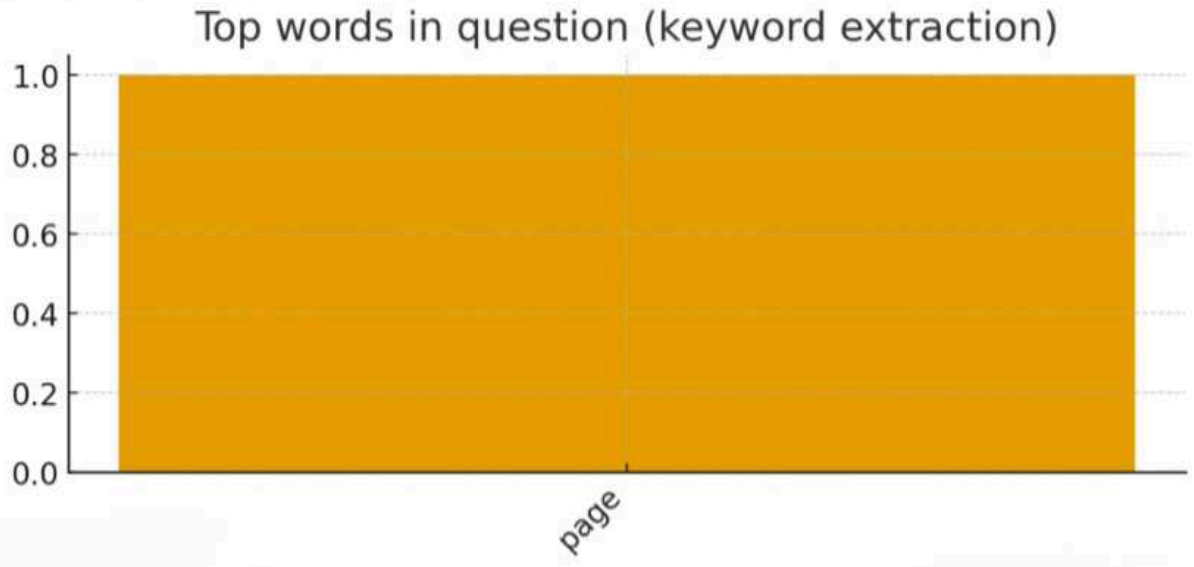
Student: SUHIRTHA M P | Course: Principles of Data Science

Question 1

Code (Python)

```
# Word-frequency bar chart for question text (helps identify keywords)
from collections import Counter
import matplotlib.pyplot as plt
import re
text = '''Page 1:
'''
words = [w.lower() for w in re.findall(r'\b[A-Za-z]{3,}\b', text)]
top = Counter(words).most_common(10)
labels = [t[0] for t in top]
counts = [t[1] for t in top]
plt.figure(figsize=(8,3))
plt.bar(labels, counts)
plt.title('Top words in question (keyword extraction)')
plt.xticks(rotation=45, ha='right')
plt.show()
```

Output (visualization)



Question 2

Code (Python)

```
# Word-frequency bar chart for question text (helps identify keywords)
from collections import Counter
import matplotlib.pyplot as plt
```

```
import re
text = '''Page 2:
'''
words = [w.lower() for w in re.findall(r'\b[A-Za-z]{3,}\b', text)]
top = Counter(words).most_common(10)
labels = [t[0] for t in top]
counts = [t[1] for t in top]
plt.figure(figsize=(8,3))
plt.bar(labels, counts)
plt.title('Top words in question (keyword extraction)')
plt.xticks(rotation=45, ha='right')
plt.show()
```

Output (visualization)