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In [1]: 1 #Q1 Write a Python program to find the occurrence and position of the substr
2 import re
3 count = 0
4 pattern=re.compile('programming')
5 matcher=pattern.finditer('Python programming, Java Programming')
6 for match in matcher:
7     count = count + 1
8     print('start index:',match.start())
9     print('end index: ',match.end())
10 print('the number of occurrences: ',count)
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start index: 7
end index: 18
the number of occurrences: 1
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In [2]: 1 #Q2 Write a Python program to replace whitespaces with an underscore and vic
2 a = re.sub(" ","_", "Programming For Data Science is an interesting subject")
3 b = re.sub("_"," ", "Its_scope_is_high_in_future")
4 print(a)
5 print(b)
```

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Programming_For_Data_Science_is_an_interesting_subject
Its scope is high in future
```

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In [3]: 1 #Q3. Write a Python program to remove leading zeros from an IP address.
2 #Example: Input: IP = "216.008.094.196";
3 #Output: IP = "216.8.94.196";
4 import re
5 def remove_leading_zeroes(text):
6     string = re.sub('\.[0]*','.',text)
7     return string
8
9 input="216.008.094.106"
10 output=(remove_leading_zeroes(input))
11 print(output)
```

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216.8.94.106
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