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#import regular expression module
import re

#create data and pattern
pattern = 'python'
data='python is fast and easy to use. I have keen interest in python'

#apply search function to find first occurrence of pattern
m = re.search(pattern,data)
print(m)

<re.Match object; span=(0, 6), match='python'>

#start index
print(m.start())

0

#end index
print(m.end())

6

#other programs related to different patterns and first occurrence of python
p1 = r'python'
d1 = 'python is fast and easy to use. I have keen interest in python'
m1 = re.search(p1,d1)
print(m1)

<re.Match object; span=(0, 6), match='python'>

#find first occurrence of digit from data
p2 = r'[0-9]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.search(p2,d2)
print(m3)

<re.Match object; span=(6, 7), match='3'>

#find first occurrence of lowercase character from data
p2 = r'[a-z]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.search(p2,d2)
print(m3)

<re.Match object; span=(0, 1), match='p'>

#find first occurrence of uppercase character from data
p2 = r'[A-Z]'
d2 = 'python3.13 is Fast and easy to Use. I have Keen interest in python'
m3 = re.search(p2,d2)
print(m3)

<re.Match object; span=(14, 15), match='F'>

#find first occurrence of digit and uppercase character from data
p2 = r'[0-9A-Z]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.search(p2,d2)
print(m3)

<re.Match object; span=(6, 7), match='3'>

#find first occurrence of digit and uppercase character from data
p2 = r'[A-Z0-9]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.search(p2,d2)
print(m3)

<re.Match object; span=(6, 7), match='3'>

#find first occurrence of digit and lowercase character from data
p2 = r'[a-z0-9]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
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```
m3 = re.search(p2,d2)
print(m3)
```

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↵ <re.Match object; span=(0, 1), match='p'>
```

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#find first occurrence excluding these characters or digits
p2 = r'^p3f]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.search(p2,d2)
print(m3)
```

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↵ <re.Match object; span=(1, 2), match='y'>
```

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