```
import re
p2 = r'[p]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.match(p2,d2,re.IGNORECASE)
print(m3)
```

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

```
p2 = r'[python]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.match(p2,d2,re.IGNORECASE)
print(m3)
```

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

```
p2 = r'[n]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.match(p2,d2,re.IGNORECASE)
print(m3)
```

```
None
```

```
p2 = r'python'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.match(p2,d2,re.IGNORECASE)
print(m3)
```

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

```
p2 = r'python'
d2 = 'ypython3.13 is fast and easy to use. I have keen interest in python'
m3 = re.match(p2,d2,re.IGNORECASE)
print(m3)
```

```
None
```

```
p2 = r'python'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.match(p2,d2,re.IGNORECASE)
print(m3.start(),m3.end())
```

```
0 6
```

```
p2 = r'python'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.match(p2,d2,re.IGNORECASE)
print(m3.group())
```

```
python
```

```
p2 = r'python'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.finditer(p2,d2,re.IGNORECASE)
cnt=0
for i in m3:
  cnt+=1
  print(i.group())
print('total occurance of python : ',cnt)
```

```
python
python
total occurance of python :  2
```

```
p2 = r'[p3i]'
d2 = 'python3.13 is fast and easy to use. I have keen interest in python'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['p', '3', '3', 'i', 'I', 'i', 'i', 'p']
```

```
p2 = r'python | in'
d2 = ' python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['python ', ' in', ' in', 'python ']
```

```
p2 = r'\d'
d2 = ' python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['3', '1', '3']
```

```
p2 = r'\D'
d2 = ' python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
[' ', 'p', 'y', 't', 'h', 'o', 'n', ' ', '.', ' ', 'i', 's', ' ', 'f', 'a', 's', 't', ' ', 'a', 'n', 'd', ' ', 'e', 'a', 's', 'y',
```

```
p2 = r'\w'
d2 = ' python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['p', 'y', 't', 'h', 'o', 'n', '3', '1', '3', 'i', 's', 'f', 'a', 's', 't', 'a', 'n', 'd', 'e', 'a', 's', 'y', 't', 'o', 'u', 's',
```

```
p2 = r'\W'
d2 = ' python 3.13 is $fast and e)asy %to use. I h(ave kee*n in#tere!st in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
[' ', ' ', '.', ' ', ' ', '$', ' ', ' ', ')', ' ', '%', ' ', '.', ' ', ' ', '(', ' ', '*', ' ', '#', '!', ' ', ' ', ' ']
```

```
p2 = r'\s'
d2 = ' python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
[' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ']
```

```
p2 = r'\S'
d2 = ' python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['p', 'y', 't', 'h', 'o', 'n', '3', '.', '1', '3', 'i', 's', 'f', 'a', 's', 't', 'a', 'n', 'd', 'e', 'a', 's', 'y', 't', 'o', 'u',
```

```
p2 = r'\bis\b'
d2 = ' python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['is']
```

```
p2 = r'\Apython'
d2 = 'python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['python']
```

```
p2 = r'\A3'
d2 = 'python 3.13 is fast and easy to use. I have keen interest in python '
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
[]
```

```
p2 = r'in\Z'
d2 = 'python 3.13 is fast and easy to use. I have keen interest in'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['in']
```

```
p2 = r'i\Z'
d2 = 'python 3.13 is fast and easy to use. I have keen interest in'
```

```
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
[]
```

```
p2 = r'.'
d2 = 'python 3.13 is fast and easy to use. I have keen interest in'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['p', 'y', 't', 'h', 'o', 'n', ' ', '3', '.', '1', '3', ' ', 'i', 's', ' ', 'f', 'a', 's', 't', ' ', 'a', 'n', 'd', ' ', 'e', 'a',
```

```
p2 = r'\.'
d2 = 'python 3.13 is fast and easy to use. I have keen interest in'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['.', '.']
```

```
p2 = r'\d{2}-\d{2}-\d{4}'
d2 = 'my dob is 17-04-1998 and current year as per dob is 17-04-2025'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['17-04-1998', '17-04-2025']
```

```
p2 = r'\d{3}' # \d\d\d
d2 = 'my dob is 17-04-1998 and current year as per dob is 17-04-2025'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['199', '202']
```

```
p2 = r'\d+' # more than one
d2 = 'my dob is 17-04-1998 and current year as per dob is 17-04-2025'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['17', '04', '1998', '17', '04', '2025']
```

```
#validate mail
p2 = r'\w+@\w+\.com' # more than one
d2 = 'my email, gmail, outlook mail is deep1937@email1.com, deepu325@gmail2.com, deepeu28@outlook4.com'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['deep1937@email1.com', 'deepu325@gmail2.com', 'deepeu28@outlook4.com']
```

```
p2 = r'a*' # more than one same character
d2 = 'my name is a, name is aa, name is aaa, name is aa'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['', '', '', '', 'a', '', '', '', '', '', '', 'a', '', '', '', 'a', '', '', '', '', '', '', 'aa', '', '', '', 'a', '', '', '', '',
```

```
p2 = r'a+' # more than one same character
d2 = 'my name is a, name is aa, name is aaa, name is aa'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['a', 'a', 'a', 'aa', 'a', 'aaa', 'a', 'aa']
```

```
p2 = r'a+b+' # more than one same character
d2 = 'my ab ac a, accc abbbb aa, acbc is abbbbb, aaaaaabbb is bab'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['ab', 'abbbb', 'abbbbb', 'aaaaaabbb', 'ab']
```

```
p2 = r'a+b+\w*' # more than one same character
d2 = 'my ab ac a, accc abbbb aa, abc is abbbbb, aaaaaabbb is bab'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['ab', 'abbbb', 'abc', 'abbbbb', 'aaaaaabbb', 'ab']
```

```
p2 = r'^m' # more than one same character
d2 = 'my ab ac a, accc abbbb aa, acbc is abbbbb, aaaaaabbb is bab'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['m']
```

```
p2 = r'^\d' # more than one same character
d2 = '678 ab ac a, accc abbbb aa, acbc is abbbbb, aaaaaabbb is bab'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['6']
```

```
p2 = r'\d$' # more than one same character
d2 = '678 ab ac a, accc abbbb aa, acbc is abbbbb, aaaaaabbb is bab'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
[]
```

```
p2 = r'\d$' # more than one same character
d2 = '678 ab ac a, accc abbbb aa, acbc is abbbbb, aaaaaabbb is bab686'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['6']
```

```
p2 = r'\d{2}$' # more than one same character
d2 = '678 ab ac a, accc abbbb aa, acbc is abbbbb, aaaaaabbb is bab89'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['89']
```

```
p2 = r'de?e?i?pak' # optional
d2 = 'my name is Deepak, deepak, dipak, Dipak'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['Deepak', 'deepak', 'dipak', 'Dipak']
```

```
p2 = r'83-?606-?58010' # optional
d2 = 'my mobile number is 83-606-58010 and 8360658010'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['83-606-58010', '8360658010']
```

```
#vaild url
p2 = r'https?://www\.\w+\.\w+' # optional
d2 = 'http://www.google.org, https://www.yahoo.com, httpp://www.facebook.in, htpp://www.amazon.nic'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['http://www.google.org', 'https://www.yahoo.com']
```

```
p2 = r'\d{1,3}' # optional
d2 = 'my mobile number is 83-606-58010 and 8360658010'
m3 = re.findall(p2,d2,re.IGNORECASE)
print(m3)
```

```
['83', '606', '580', '10', '836', '065', '801', '0']
```

Start coding or generate with AI.