



```
import re
```

```
testdate = '''Possible dates for the first assessment exams are 1-08-2018, 03/8/20
Possible dates for the second assessment exams are October 22 , 2018 , October 24
1 Nov,2018, 03 Nov ,2018 32 Nov,2018 Possible dates for semester exams are 2018/11,
```

```
print(re.findall('\b\d{1,2}/\d{1,2}/\d{2,4}\b', testdate)) #dd/mm/yy or #dd/mm/y
print(re.findall('\b\d{1,2}\.\d{1,2}\.\d{2,4}\b', testdate)) #dd.mm.yyyy or #dd.
print(re.findall('\b\d{4}-\d{1,2}-\d{1,2}\b', testdate)) #yyyy-mm-dd
print(re.findall('(?:January|February|October) \d{1,2} *\d{4}\b', testdate)) ;
print(re.findall('\d{1,2} (?:Jan|Feb|Mar|Apr|May|June|July|Aug|Sept|Oct|Nov|Dec) *'
```



```
['03/8/2018']
['07.08.18']
['2018-11-9', '2018-13-04']
['October 22 , 2018', 'October 24, 2018', 'October 29, 2018']
['1 Nov,2018', '03 Nov ,2018', '32 Nov,2018']
```

```
testtime = '''Possible starting times are
5.15AM or 05:15 AM or 5.15am or 5.15 am
5.15 PM or 5:15PM or 5.15 PM or 5.15pm
13:4 or 13:04:22 or 13:24:22.04'''
```

```
#4.30 AM, 4:30 am, 5.15 pm, 13:24
```

```
print(re.findall('\b\d{1,2}\.\d{1,2} AM',testtime)) #H.MM AM
print(re.findall('\b\d{1,2}:\d{1,2} am',testtime)) #H:MM am
print(re.findall('\b\d{1,2}\.\d{1,2} PM',testtime)) #H.MM PM
print(re.findall('\b\d{2}:\d{2}',testtime)) #HH:MM
```



```
[]
[]
['5.15 PM', '5.15 PM']
['05:15', '13:04', '13:24']
```

```
testmob = '''Possible mobile number formats are 7382293451
91738293451 or 91 7382293451 +917382293451 or +91 7382293451 or
+ 91 7382293451 (+91)738229345 or ( +91 )7382293451 or (+91) 7382293451'''
```

```
#7382293451 +917382293451 (+91) 738229345
```

```
print(re.findall('[^+]\d \d{10}',testmob))
print(re.findall('\+\d{2}\d{10}',testmob))
print(re.findall('\( \d{2}\) \d{10}', testmob))
```



```
['e 7382293451']
['+917382293451']
['(+91) 7382293451']
```

```
testll = '''Landline number formats are 22469 04322469 or 043 22469 (043)22469 or
```

```
#22469 04322469 (043)22469
```

```
print(re.findall('[^]\d \d{5}',testll))
```

```
print(re.findall('043\d{5}',testll))
```

```
print(re.findall('\(043\)\d{5}',testll))
```

```
[ 'e 22469' ]
[ '04322469' ]
[ '(043)22469' ]
```

```
testcur = '$500.12 , 500.12dollars, 500.1 dollars
$ 1.24 , 1.25dollars, $1,000.40 , $10,000.14'
```

```
#10 dollars $ 10
```

```
print(re.findall('\d+\.\d* dollars',testcur))
```

```
print(re.findall('\$ \d+\.\d*',testcur))
```

```
[ '500.1 dollars' ]
[ '$ 1.24' ]
```

```
#1046 → 1,046
```

```
#100049 → 1,00,49 [Indian]
```

```
#1000496 → 1,000,496 [US]
```

```
testcurcon = '1046'
```

```
print(re.sub('([\d])(\d{3})','\1,\2',testcurcon))
```

```
testcurcon2 = '100049'
```

```
print(re.sub('([\d])(\d{2})(\d{2})','\1,\2,\3',testcurcon2))
```

```
testcurcon3 = '1000496'
```

```
print(re.sub('([\d])(\d{3})(\d{3})','\1,\2,\3',testcurcon3))
```

```
1,046
1,00,049
1,000,496
```

```
testmails = 'abcd.yz [at] iiith [dot] ac[dot]
in can be written like abcd.yz [AT] iiith [DOT] ac [DOT] in or
like abcd.yz(AT) iiith (DOT) ac (DOT) in , abcd.yz(at ) iiith ( dot) ac. In,
abcd[at]nitt.edu or abcd AT nitt DOT edu etc'
```

```
#abcd.yz [at] iiith [dot] ac [dot] in
```

```
#abcd [at] nitt.edu
```

```
#abcd AT nitt DOT edu
```

```
#abcd.yz(AT) iiith (DOT) ac (DOT) in
```

```
print(re.findall('\w+\.\w+ \[at\] iiith \[dot\] ac \[dot\] in',testmails))
```

```
print(re.findall('\w+ \[at\] nitt.edu',testmails))
```

```
print(re.findall('\w+ AT nitt DOT edu', testmails))
```

```
print(re.findall('\w+\.\w+\(AT\) iiith \(DOT\) ac \(DOT\) in', testmails))
```

```
[ ]
[ ]
[ 'abcd AT nitt DOT edu' ]
[ 'abcd.yz(AT) iiith (DOT) ac (DOT) in' ]
```

```
testurls = 'https://www.google.co.in www.cricbuzz.in http://www.abcd.me
This course is very good E:\nlp\deep learning\ Andrew ng\ course1\introduction.mp4
```

```
#www.website.extension
#http[s]://www.website.extenstion

print(re.findall('[^/]www\.\w+\.\w+', testurls))

print(re.findall('https?:\/\/www\.\w+\.\w+\.?w*', testurls))
```

```
[' www.cricbuzz.in']
['https://www.google.co.in', 'http://www.abcd.me']
```

```
testnames = '''Rama Viswanath called by her friends Rama V. or V.Rama Subash Chand
called as S. C. Bose or sometimes Subash C. Bose, Mr. Subash Chandra Bose, Mr.
Sri A. Sumanth, Dr. S. Priya , Dr.B.Kavitha, Prof. John Xavier are members of t
```

```
print(re.findall('[a-zA-z]{4,} [a-zA-Z]{3,}' ,testnames)) #Rama Viswanath #false
print(re.findall('\S{4,} \S\.' ,testnames)) #Rama V.
print(re.findall('[a-zA-Z]{1}\.[a-zA-Z]{4,}' ,testnames)) #V.Rama
print(re.findall('[a-zA-z]{4,} [a-zA-Z]{3,} [a-zA-Z]{4,}' , testnames)) #Subash Cha
print(re.findall('\b[a-zA-Z]{1}\. [a-zA-Z]{1}\. [a-zA-Z]{4,}' ,testnames)) #S. C.
print(re.findall('\b[a-zA-Z]{3,} [a-zA-Z]{1}\. [a-zA-Z]{4,}' ,testnames)) #Subash
print(re.findall('Mr\.[a-zA-z]{4,} [a-zA-Z]{3,} [a-zA-Z]{4,}' , testnames)) #Mr. S
print(re.findall('Mr\.[a-zA-Z]{1}\. [a-zA-Z]{1}\. [a-zA-Z]{4,}' ,testnames)) #Mr.
```

```
['Rama Viswanath', 'friends Rama', 'Rama Subash', 'Chandra Bose', 'Subash Ch
['Rama V.', 'Subash C.']
['V.Rama', 'B.Kavitha']
['Rama Viswanath called', 'Rama Subash Chandra', 'Subash Chandra Bose', 'Xav
['S. C. Bose', 'S. C. Bose']
['Subash C. Bose']
['Mr. Subash Chandra Bose']
['Mr. S. C. Bose']
```

```
testabr = "U.S.A. and I.T. and U.S.A."
print(re.sub('[A-Z]\.[A-Z]\.[A-Z].','United States of America', testabr)) #3 lette
print(re.sub('^[A-Z\.] [A-Z]\.[A-Z]\.[A-Z]', 'Information Technology', testabr)) #2
```

```
United States of America and I.T. and United States of America
U.S.A. andInformation Technologyand U.S.A.
```

