REGULAR EXPRESSION

```
import re
str="its a rainy day"
res=re.findall("\Aits",str)
print(res)
if res:
 print("found")
else:
 print("Not found")
     ['its']
     found
res1=re.search(r'nice','hi i am a human \ i am not nice')
print(res1)
print(res1.group())
print("start",res1.start())
print("end ",res1.end())
match = re.search(r'portal', 'A computer science \ portal forEducation')
print(match)
print(match.group())
print('Start Index:', match.start())
print('End Index:', match.end())
cre.Match object; span=(27, 31), match='nice'>
     nice
     start 27
     end 31
     <re.Match object; span=(21, 27), match='portal'>
     Start Index: 21
     End Index: 27
print(re.findall(r'[E-m]ducation', 'Education of education: \ A computer science portal for education mducation'))
     ['Education', 'education', 'mducation']
print('Range',re.search(r'[a-zA-Z]', 'x'))
     Range <re.Match object; span=(0, 1), match='x'>
x = range(3, 6)
for n in x:
print(n)
print("printed in the difference of 2")
x = range(3, 20, 2)
for n in x:
print(n)
     3
     4
     printed in the difference of 2
     7
     9
     11
     13
     15
     17
     19
```

```
print(re.search(r'[^a-z]', 'c'))
print(re.search(r'C[^1]', 'Class'))
          None
          None
# Beginning of String
match = re.search(r'^is', 'This is the month')
print('Beg. of String:', match)
match = re.search(r'^is', 'is the month')
print('Beg. of String:', match)
# End of String
match = re.search(r'education$','Compute science portal for education')
print('End of String:', match)
          Beg. of String: None
          Beg. of String: <re.Match object; span=(0, 2), match='is'>
          End of String: <re.Match object; span=(27, 36), match='education'>
print('Any Character', re.search(r'p.th.n', 'python 3'))
          Any Character <re.Match object; span=(0, 6), match='python'>
print('Color',re.search(r'colou?r', 'color'))
print('Colour',re.search(r'colou?r', 'colour'))
          Color <re.Match object; span=(0, 5), match='color'>
          Colour <re.Match object; span=(0, 6), match='colour'>
print('Date\{mm-dd-yyyy\}:', re.search(r'[\d]{2}-[\d]{4}','13-07-2023'))
          \label{lem:dd-yyyy} \end{subseteq} \begin{subsetem} \parbox{0.5cm} \parbox{0.5c
print('Three Digit:', re.search(r'[\d]{3,4}', '189'))
print('Four Digit:', re.search(r'[\d]{3,4}', '2145'))
          Three Digit: <re.Match object; span=(0, 3), match='189'>
          Four Digit: <re.Match object; span=(0, 4), match='2145'>
print(re.search(r'[\d]{1,}','5th Floor, B-218,\Sector-136, Noida, Uttar Pradesh - 201405'))
          <re.Match object; span=(0, 1), match='5'>
print(re.search(r'[\d]+','5th Floor, B-218,\Sector-136, Noida, Uttar Pradesh - 201405'))
          <re.Match object; span=(0, 1), match='5'>
grp = re.search(r'([\d]{2})-([\d]{4})', '12-07-2023')
print(grp)
          <re.Match object; span=(0, 10), match='12-07-2023'>
grp = re.search(r'([\d]{2})-([\d]{4})','14-07-2023')
print(grp.groups())
          ('14', '07', '2023')
grp = re.search(r'([\d]{2})-([\d]{4})','14-07-2023')
print(grp.group(3))
          2023
grp = re.search(r'(?P<dd>[\d]{2})-(?P<mm>[\d]{2})-(?P<yyyy>[\d]{4})','14-07-2023')
print(grp.group('dd'))
grp = re.search(r'(?P<dd>[\d]{2})-(?P<mm>[\d]{2})-(?P<yyyy>[\d]{4})','14-07-2023')
print(grp.groupdict())
```

```
14
{'dd': '14', 'mm': '07', 'yyyy': '2023'}

print('negation:', re.search(r'n[^e]', 'Python'))
    print('lookahead:', re.search(r'n(?!e)', 'Python'))
    negation: None
    lookahead: <re.Match object; span=(5, 6), match='n'>

print('positive lookahead', re.search(r'n(?=e)', 'jasmine'))
    positive lookahead <re.Match object; span=(5, 6), match='n'>

print(re.sub(r'([\d]{4})-([\d]{4})-([\d]{4})-([\d]{4})',r'\l\2\3\4', '1111-2222-3333-4444'))
    1111222233334444

regex = re.compile(r'([\d]{2})-([\d]{2})-([\d]{4})')

print('compiled reg expr', regex.search('13-07-2023'))

print(regex.sub(r'\l.\2.\3', '13-07-2023'))
    compiled reg expr <re.Match object; span=(0, 10), match='13-07-2023'>
    13.07.2023'
```

√ 0s completed at 8:57 PM

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