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Section: 3C

Topic : Searching for Valid date in the given string

Code:

import re

txt = "The conference is from 09-10-2021 to 16-10-2021, and aliens will arrive on 32-5-2021"

print("Text\n"+txt)

date = "(((([1-2][0-9]|0[1-9]|3[0-1])-(0[13578]|1[02]))|(([1-2][0-9]|0[1-9]|30)-(0[469]|11))|(([1-2][0-9]|0[1-8])-(02)))-2021)"

cmp = re.compile(date)

x = re.findall(cmp,txt)

print("The valid dates mentioned in the text are:")

for i in range(len(x)):

  print(x[i][0])

  sp = re.search(x[i][0],txt)

  span = sp.span()

  print("The span of the above date is:",span)

  txt = re.sub(x[i][0],"{date}",txt,1)

print("All the valid dates are replaced with {date} in the text")

print("Text\n"+txt)

Output Screenshots:

```
Text
The conference is from 09-10-2021 to 16-10-2021, and aliens will arrive on 32-5-2021
The valid dates mentioned in the text are:
09-10-2021
The span of the above date is: (23, 33)
16-10-2021
The span of the above date is: (33, 43)
All the valid dates are replaced with {date} in the text
Text
The conference is from {date} to {date}, and aliens will arrive on 32-5-2021
```

```
Text
We have holidays starting from 30-02-2021 and classes start from 01-03-2021
The valid dates mentioned in the text are:
01-03-2021
The span of the above date is: (65, 75)
All the valid dates are replaced with {date} in the text
Text
We have holidays starting from 30-02-2021 and classes start from {date}
```