In [1]:
```
import re
```

In [ ]:
```
1st question
```

In [10]:
```
string1="Hello everyone this is my project as to be excuted on 29-12-2023"
x=re.findall("[a-zA-Z0-9]+",string1)
print(x)
```

```
['Hello', 'everyone', 'this', 'is', 'my', 'project', 'as', 'to', 'be', 'excuted', 'on', '29', '12', '2023']
```

In [ ]:
```
2nd Question
```

In [16]:
```
target_string='0 is the whole number and we can bold it'
y=re.match("^\w",target_string)
print(y)
import regex as re
msges=['0 is the whole number b is my favorite game and b are my lovely fruit']
for msg in msges:
    search=re.search('b', msg)
    print(search)
```

```
<regex.Match object; span=(0, 1), match='0'>
<regex.Match object; span=(18, 19), match='b'>
```

In [ ]:
```
3rd question
```

In [25]:
```
import regex as re
msges=['b is my favorite letter and','banana is my lovely fruit']
for msg in msges:
    search=re.search('b', msg)
    print(search)
```

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

In [ ]:
```
4th question
```

In [18]:
```
import regex as re
msges=['abbbbb']
for msg in msges:
    search=re.search('b', msg)
    print(search)
```

```
<regex.Match object; span=(1, 2), match='b'>
```

In [ ]:
```
5th question
```

In [28]:
```
import regex as re
msges=['b is my favorite letter and','banana is my lovely fruit','abbbb']
for msg in msges:
    search=re.search('b', msg)
    print(search)
```

```
<regex.Match object; span=(0, 1), match='b'>
<regex.Match object; span=(0, 1), match='b'>
<regex.Match object; span=(1, 2), match='b'>
```

In [ ]:
```
6th question
```

In [29]:
```
import regex as re
msges=['b is my favorite letter and','banana is my lovely fruit','abbbb','b for boy']
for msg in msges:
    search=re.search('b', msg)
    print(search)
```

```
<regex.Match object; span=(0, 1), match='b'>
<regex.Match object; span=(0, 1), match='b'>
<regex.Match object; span=(1, 2), match='b'>
<regex.Match object; span=(0, 1), match='b'>
```

In [ ]:
```
7th question
```

In [20]:
```
import re
string="apostivebloodgroup is good group"
pattern='a[\w]+b'
result=re.findall(pattern,string)
print(result)
```

```
['apostiveb']
```

In [ ]:
```
8th question
```

In [33]:
```
target_string="23456 is the Id number of Cricketer Dhoni"
# match at the beginning
```

```
result=re.match(r"\d{5}",target_string)
print(result)
```

```
<regex.Match object; span=(0, 5), match='23456'>
```

In [ ]:
```
9th question
```

In [38]:
```
target_string="Dhoni Id number of Cricketer 342"
# match at the end
result=re.match(r"\w{5}",target_string)
print(result)
```

```
<regex.Match object; span=(0, 5), match='Dhoni'>
```

In [ ]:
```
10th question
```

In [23]:
```
import re
str1="the digit has four numbers in the list to be separted 01 0132 231875 1458 301 2725."
# pattern to find three consecutive digits
string_pattern=r"\d{4}"
# compile string pattern to re.Pattern object
regex_pattern=re.compile(string_pattern)
# print the type of compiled pattern
print(type(regex_pattern),"\n")
# find all the matches in string one
result=regex_pattern.findall(str1)
print(result)
```

```
<class 're.Pattern'>

['0132', '2318', '1458', '2725']
```

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