In [2]:
```
#The pattern is : any five letter string starting with a and ending with s
import re
pattern = '^a...s$'
test_string = 'abyss'
#test_string = 'byss'
#test_string = 'abacus'
result = re.match(pattern,test_string)
if result:
    print("Search successful.")
else:
    print("Search Unsuccessful.")
```

```
Search successful.
```

In [3]:
```
#Program to extract numbers from a string
import re
string = 'hello 12 hi 89. How are you 3 and 3'
pattern ='\d'
#pattern = '\D'
result = re.findall(pattern, string)
print(result)
```

```
['1', '2', '8', '9', '3', '3']
```

In [4]:
```
#The re.split method splits the string where there is a match and
#returns a list of strings where the splits have occured
import re
string = 'Twelve:12 Eighty Nine:89.'
pattern = '\d?'
#pattern = '\d*'
result = re.split(pattern,string)
print(result)
```

```
['', 'T', 'w', 'e', 'l', 'v', 'e', ':', '', '', ' ', 'E', 'i', 'g', 'h', 't', 'y', ' ', 'N', 'i', 'n', 'e', ':', '', '', '.', '']
```

In [5]:
```
#Check if 'Python' is at the beginning
import re
string = "Python is interpreted Language"
match = re.search('\APython', string)
#match = re.search('\ASYBtech', string)
if match:
    print("Pattern found inside the string")
else:
    print("Pattern not found")
```

```
Pattern found inside the string
```

In [6]:
```
str='Her Name is sita'
for i in re.finditer("sita",str):
    index=i.span()
    print(index)
```

```
(12, 16)
```

In [7]:
```
#findall function
import re
str2='Rat Cat Pat Mat Sat Qat'
data=re.findall('[RCMP]at',str2)
print(data)
data=re.findall('[^P-R]at',str2)
print(data)
```

```
['Rat', 'Cat', 'Pat', 'Mat']
['Cat', 'Mat', 'Sat']
```

In [ ]:
```

```