

# Name = Divyanshu Singh

## ID = 56

In [1]: `import re`

.

### 1

In [2]: `text = ['The Dance of the Twisted Bull is abbbb the nineteenth collection by British c  
'It was inspired by Spanish culture and art, especially flamenco and bullfight  
'The runway show was staged during Paris Fashion Week in 2001 at the headquart  
'Twisted Bull was received mostly positively, especially by British journalist  
'Dresses from the collection appeared in retrospective exhibitions: in the 201  
  
for a in text:  
 b = re.search(r"\w",a)  
print(b)`

<re.Match object; span=(0, 1), match='D'>

In [3]: `text = ['The Dance of the Twisted Bull is abbbb the nineteenth collection by British c  
'It was inspired by Spanish culture and art, especially flamenco and bullfight  
'The runway show was staged during Paris Fashion Week in 2001 at the headquart  
'Twisted Bull was received mostly positively, especially by British journalist  
'Dresses from the collection appeared in retrospective exhibitions: in the 201  
  
for match in text:  
 search = re.compile("[^A-Z][a-z][0-9]+")`

.

### 2

.

In [4]: `text = "The Dance of the Twisted Bull is abbbb the nineteenth collection by British de  
match = re.search(r"a*b",text)  
print(match)`

<re.Match object; span=(33, 35), match='ab'>

In [5]: `text = "The Dance of the Twisted Bull is abbbb the nineteenth collection by British de  
match = re.findall(r"a*b+",text)  
print(match)`

['abbbb', 'b', 'b', 'b', 'b', 'b']

.

### 3

.

```
In [6]: text = "The Dance of the Twisted Bull is ab abbbb the nineteenth collection by British de  
match = re.findall(r"a+b+",text)  
print(match)  
['ab', 'abbbb']
```

.

### 4

.

```
In [7]: text = "The Dance of the Twisted Bull is abbbb the nineteenth collection by British de  
match = re.findall(r"a?b+",text)  
print(match)  
['abbbb', 'b', 'b', 'b', 'b', 'b']
```

.

### 5

.

```
In [8]: text = "The Dance of the Twisted Bull is abbbb the nineteenth collection by British de  
match = re.search(r"a+b{3}",text)  
print(match)  
<re.Match object; span=(33, 37), match='abbb'>
```

```
In [9]: text = "The Dance of the Twisted Bull is abbbb the nineteenth collection by British de  
match = re.findall(r"a+b{3}",text)  
print(match)  
['abbb']
```

.

### 6

.

```
In [10]: text = "TheDanceOfTheTwistedBullIsAbbbbTheNineteenthCollectionByBritishDesignerAlexand  
print(re.split(r"[A-Z]",text))
```

```
[', 'he', 'ance', 'f', 'he', 'wisted', 'ull', 's', 'bbbb', 'he', 'ineteenth', 'ollec  
tion', 'y', 'ritish', 'esigner', 'lexander', 'c', 'ueen']
```

```
In [11]: text = "TheDanceOfTheTwistedBullIsAbbbbTheNineteenthCollectionByBritishDesignerAlexand  
print(re.sub("[A-Z]", " ",text))
```

```
he ance f he wisted ull s bbbb he ineteenth collection y ritish esigner lexander c ue  
en
```

## 7

```
In [12]: text = "The Dance of the Twisted Bull is abbbb abb abbbb abab the nineteenth collectio  
match = re.findall(r"a+b{2,3}",text)  
print(match)
```

```
['abbbb', 'abb', 'abbbb']
```

## 8

```
In [13]: text = "The Dance_of_the_Twisted_Bull is abbbb abb abbbb abab the nineteenth collectio  
match = re.findall(r"_[a-z]+",text)  
print(match)
```

```
['_of', '_the']
```

## 9

```
In [14]: text = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth colle  
match = re.findall(r"a\Bb+",text)  
print(match)
```

```
['abbbb', 'ab', 'abb', 'abbbb', 'ab', 'ab']
```

## # 10

```
In [15]: text = ['The Dance of the Twisted Bull is abbbb the nineteenth collection by British c  
'It was inspired by Spanish culture and art, especially flamenco and bullfight  
'The runway show was staged during Paris Fashion Week in 2001 at the headquart  
'Twisted Bull was received mostly positively, especially by British journalist  
'Dresses from the collection appeared in retrospective exhibitions: in the 201  
  
for match in text:  
    search = re.search(r"\bT",match)  
    print(search)
```

```
<re.Match object; span=(0, 1), match='T'>
```

```
None
```

```
<re.Match object; span=(0, 1), match='T'>
```

```
<re.Match object; span=(0, 1), match='T'>
```

```
None
```

## 11

```
In [16]: text = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth colle
" Its sharp tailoring emphasises femininity and sexuality. It is McQueen's first colle

match = re.findall(r"[a-zA-Z0-9_]+",text)
print(match)
```

```
['The', 'Dance_of_the_Twisted_Bull', 'is', 'abbbb', 'aba', 'abb', 'abbbb', 'abab', 't
he', 'nineteenth', 'collection', 'by', 'British', 'designer', 'Alexander', 'McQueen',
'pictured', 'made', 'for', 'the', 'Spring', 'Summer', '2002', 'season', 'of', 'his',
'fashion', 'house', 'It', 'was', 'inspired', 'by', 'Spanish', 'culture', 'and', 'ar
t', 'especially', 'flamenco', 'and', 'bullfighting']
```

```
In [17]: text = ['The Dance of the Twisted Bull is abbbb the nineteenth collection by British c
'It was inspired by Spanish culture and art, especially flamenco and bullfight
'The runway show was staged during Paris Fashion Week in 2001 at the headquart
'Twisted Bull was received mostly positively, especially by British journalist
'Dresses from the collection appeared in retrospective exhibitions: in the 201

for a in text:
    b = re.compile(r"^[A-Za-z_]+")
    print(re.search(b,a))
```

```
<re.Match object; span=(3, 4), match=' '>
<re.Match object; span=(2, 3), match=' '>
<re.Match object; span=(3, 4), match=' '>
<re.Match object; span=(7, 8), match=' '>
<re.Match object; span=(7, 8), match=' '>
```

## 12

```
In [18]: text = ['1221 The Dance of the Twisted Bull is abbbb the nineteenth collection by Brit
'It was inspired by Spanish culture and art, especially flamenco and bullfight
'The runway show was staged during Paris Fashion Week in 2001 at the headquart
'Twisted Bull was received mostly positively, especially by British journalist
'Dresses from the collection appeared in retrospective exhibitions: in the 201

for a in text:
    b = re.compile(r"^1")
    print(re.search(b,a))
```

```
<re.Match object; span=(0, 1), match='1'>
None
None
None
None
```

```
In [19]: text = ['1221 The Dance of the Twisted Bull is abbbb the nineteenth collection by Brit
'It was inspired by Spanish culture and art, especially flamenco and bullfight
'The runway show was staged during Paris Fashion Week in 2001 at the headquart
'Twisted Bull was received mostly positively, especially by British journalist
'Dresses from the collection appeared in retrospective exhibitions: in the 201

for a in text:
    print(a.startswith("1"))
```

```
True
False
False
False
False
```

```
In [20]: text = " 1221 The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth"
match = re.findall(r"\d+",text)
print(match)

['1221', '2002', '2001', '2001', '2011', '2015', '2022']
```

```
In [21]: text = " 1221 The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth"
match = re.findall(r"[0-9]+",text)
print(match)

['1221', '2002', '2001', '2001', '2011', '2015', '2022']
```

```
In [22]: text = " 1221 The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth"
match = re.search(r"2001",text)
print(match)

<re.Match object; span=(446, 450), match='2001'>
```

## 13

```
In [23]: ip = "110.202.033.00"
match = re.sub("\.[0]+",',',ip)
print(match)

110.202,33,
```

## 14

```
In [24]: string = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth col"
print(re.findall("\d{4}-\d{2}-\d{2}",string))

['2002-02-02']
```

```
In [25]: string = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth col"
print(re.search(r"2002-02-02",string))

<re.Match object; span=(147, 157), match='2002-02-02'>
```

## 15

```
In [26]: text = 'The quick brown fox jumps over the lazy dog'
patterns = ['fox','dog','horse']
for pattern in patterns:
    print('searching for "%s" in %s ->'%(pattern,text))
    if re.search(pattern,text):
        print('found')
    else:
        print('not found')
```

```

searching for "fox" in The quick brown fox jumps over the lazy dog ->
found
searching for "dog" in The quick brown fox jumps over the lazy dog ->
found
searching for "horse" in The quick brown fox jumps over the lazy dog ->
not found

```

## 16

```

In [27]: text = 'The quick brown fox jumps over the lazy dog'
patterns = ['fox']
for pattern in patterns:
    print('searching for "%s" in %s ->'%(pattern,text))
    if re.search(pattern,text):
        print('found')
    else:
        print('not found')
print(re.search(r'fox',text))

```

```

searching for "fox" in The quick brown fox jumps over the lazy dog ->
found
<re.Match object; span=(16, 19), match='fox'>

```

## 17

```

In [28]: text = 'python exercises, PHP exercises,C# exercises'
patterns = 'exercises'
for pattern in patterns:
    print('searching for "%s" in %s ->'%(pattern,text))
    if re.search(pattern,text):
        print('found')
    else:
        print('not found')
print(re.search(r'exercises',text))

```

```

searching for "e" in python exercises, PHP exercises,C# exercises ->
found
searching for "x" in python exercises, PHP exercises,C# exercises ->
found
searching for "e" in python exercises, PHP exercises,C# exercises ->
found
searching for "r" in python exercises, PHP exercises,C# exercises ->
found
searching for "c" in python exercises, PHP exercises,C# exercises ->
found
searching for "i" in python exercises, PHP exercises,C# exercises ->
found
searching for "s" in python exercises, PHP exercises,C# exercises ->
found
searching for "e" in python exercises, PHP exercises,C# exercises ->
found
searching for "s" in python exercises, PHP exercises,C# exercises ->
found
<re.Match object; span=(7, 16), match='exercises'>

```

```
In [29]: text = 'python exercises, PHP exercises,C# exercises'
pattern = 'exercises'
for match in re.findall(pattern,text):
    print('found "%s" ' % match)
```

```
found "exercises"
found "exercises"
found "exercises"
```

## 18

```
In [30]: text = 'python exercises, PHP exercises,C# exercises'
pattern = 'exercises'
for match in re.findall(pattern,text):
    print('found "%s" ' % match)
print(re.search(r'exercises',text))
```

```
found "exercises"
found "exercises"
found "exercises"
<re.Match object; span=(7, 16), match='exercises'>
```

## 19

```
In [31]: a = "in 1999-07-24 lpg reforms were introduced"
x = re.sub(r'(\d{4})-(\d{1,2})-(\d{1,2})','\3-\2-\1',a)
print(x)
```

```
in 24-07-1999 lpg reforms were introduced
```

## 20

```
In [32]: text = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth colle
match = re.findall(r"a\B|e\B",text)
print(match)
```

```
['a', 'e', 'e', 'e', 'a', 'a', 'a', 'a', 'a', 'a', 'e', 'e', 'e', 'e', 'e', 'e', 'e',
'a', 'e', 'e', 'e', 'e', 'a', 'e', 'e', 'a', 'a', 'a', 'e', 'a', 'a', 'a', 'e', 'e',
'a', 'a', 'e', 'a', 'a', 'a', 'e', 'a', 'e', 'e', 'a', 'e', 'a', 'e', 'e', 'a',
'e', 'e', 'a', 'e', 'a', 'a', 'a', 'a', 'a', 'a', 'e', 'a', 'a', 'e', 'e', 'a', 'e',
'a', 'a', 'e', 'a', 'a', 'a', 'a', 'a', 'e', 'e', 'a', 'e', 'e', 'e', 'a', 'a', 'e',
'e', 'a', 'e', 'e', 'a', 'e', 'e', 'a', 'e', 'e', 'e', 'e', 'e', 'a', 'a', 'e', 'a',
'e', 'e', 'a', 'e', 'a', 'e', 'e', 'e', 'e', 'e', 'e', 'e', 'a', 'a', 'e', 'a', 'e',
'e', 'e', 'a', 'e', 'a', 'e', 'e', 'e', 'e', 'a', 'a', 'e', 'a', 'e', 'e', 'a',
'a', 'e', 'a', 'a']
```

```
In [33]: text = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth colle
match = re.findall("[ae]\w+",text)
print(match)
```

```
['ance_of_the_Twisted_Bull', 'abbbb', 'aba', 'abb', 'abbbb', 'abab', 'eteenth', 'ecti
on', 'esigner', 'exander', 'een', 'ed', 'ade', 'er', 'eason', 'ashion', 'as', 'ed',
'anish', 'and', 'art', 'especially', 'amenco', 'and', 'arp', 'ailoring', 'emphasise
s', 'emininity', 'and', 'exuality', 'een', 'ection', 'after', 'eaving', 'enchy', 'an
d', 'ale', 'any', 'ay', 'as', 'aged', 'aris', 'ashion', 'eek', 'at', 'eadquarters',
'ade', 'ançais', 'as', 'ared', 'evious', 'and', 'esigns', 'ere', 'ercial', 'and', 'en
ded', 'ales', 'eason', 'er', 'ection', 'ales', 'ere', 'eportedly', 'ed', 'as', 'eceive
ed', 'ely', 'especially', 'alists', 'erican', 'ers', 'ere', 'ess', 'essed', 'articula
rly', 'essmaking', 'esses', 'ection', 'appeared', 'etrospective', 'exhibitions', 'an
d', 'agings', 'exander', 'een', 'avage', 'eauty', 'and']
```

## 21

```
In [34]: a= "in 1999 lpg reforms were introduced"
x= re.findall('\d+',a)
y= re.search('\d+',a)
print(x,y)

['1999'] <re.Match object; span=(3, 7), match='1999'>
```

## 22

```
In [35]: a= "In 1999 lpg reforms were introduced in India"
x= re.findall('\d+',a)
print(max(x))

1999
```

## 23

```
In [36]: text = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth colle
match = re.sub("[A-Z]", " ",text)
print(match)
```

he ance\_of\_the\_wisted\_ull is abbbb aba abb abbbb abab the nineteenth collection b  
y ritish designer lexander c ueen (pictured), made for the pring/ummer 2002 seas  
on of his fashion house. t was inspired by panish culture and art, especially flame  
nco and bullfighting. ts sharp tailoring emphasises femininity and sexuality. t is  
c ueen's first collection after leaving ivenchy and the sale of his company to the  
ucci roup in 2001. he runway show was staged during aris ashion eek in 2001 at t  
he headquarters of tade rançais. t was simple compared to previous shows, and the  
designs were commercial and intended to drive sales for his first season under ucci.  
he collection's sales were reportedly strong. wisted ull was received mostly positi  
vely, especially by ritish journalists; merican writers were less impressed, partic  
ularly with the dressmaking. resses from the collection appeared in retrospective ex  
hibitions: in the 2011 and 2015 stagings of lexander c ueen: avage eauty, and in  
2022.

## 24

```
In [37]: a= "In 1999 lpg reforms were introduced in India@"
x= re.findall('[A-Z]+[a-z]+',a)
```



```
print(x)
['In', 'India']
```

## 26

```
In [38]: a= "In 1999 lpg reforms were introduced in India"
x= re.search('[A-Za-z0-9]$',a)
print(x)

<re.Match object; span=(43, 44), match='a'>
```

## 27

```
In [39]: a= "In 1999 #lpg reforms were introduced in #India"
x= re.search(r'#\S+',a)
print(x)

<re.Match object; span=(8, 12), match='#lpg'>
```

```
In [40]: a= "In 1999 #lpg reforms were introduced in #India"
x= re.findall(r'#\S+',a)
print(x)

['#lpg', '#India']
```

## 28

```
In [41]: a= "In U 1999 U #lpg reforms were introduced in #India"
x= re.sub(r'U','',a)
print(x)

In 1999 #lpg reforms were introduced in #India
```

```
In [42]: a= "In U+ 1999 U+ #lpg reforms were introduced in #India"
x= re.sub(r'U+','',a)
print(x)

In + 1999 + #lpg reforms were introduced in #India
```

## 29

```
In [43]: string = "The Dance_of_the_Twisted_Bull is abbbb aba abb abbbb abab the nineteenth col
print(re.findall("\d{4}-\d{2}-\d{2}",string))

['2002-02-02']
```

## 30

```
In [44]: text = 'The quick brown fox jumps, over the lazy dog.'
print(re.sub(r"[ ,.]",":",text))
```

The:quick:brown:fox:jumps::over:the:lazy:dog:

In [ ]: