

Regular Expression Practice Questions Answer

Question 1- Write a RegEx pattern in python program to check that a string contains only a certain set of characters (in this case a-z, A-Z and 0-9).

Answer :

```
string = 'Data science uses that data to make companies more profitable part. Objectives are generally based on KPIs'
```

```
pattern = '[a-z, A-Z0-9]+'
```

```
result = re.findall(pattern,string)
```

```
print(result)
```

Question 2- Write a RegEx pattern that matches a string that has an a followed by zero or more b's

Answer:

```
msgs = 'Data science uses that data to make companies more profitable rub sob part.'
```

```
for msg in msgs:
```

```
    search = re.findall("\d+|b",msg)
```

```
    print (search)
```

Question 3- Write a RegEx pattern that matches a string that has an a followed by one or more b's

Answer:

```
msgs = 'Data science uses that data to make companies more profitable rub sob part.'
```

```
for msg in msgs:
```

```
    search = re.match("\d+|b",msg)
```

```
    print (search)
```

Question 4- Write a RegEx pattern that matches a string that has an a followed by zero or one 'b'.

Answer:

```
msgs = 'Data science uses that data to make companies more profitable rub sob part.'
```

```
for msg in msgs:
```

```
    search = re.match("\d+|b",msg)
```

```
    print (search)
```

Question 5- Write a RegEx pattern in python program that matches a string that has an a followed by three 'b'.

Answer:

```
msgs = 'Data science uses that data to make companies more profitable rub sob part.'
```

```
for msg in msgs:
```

```
    search = re.match("\d+|bbb",msg)
```

```
    print (search)
```

Question 6- Write a RegEx pattern in python program that matches a string that has an a followed by two to three 'b'.

Answer:

```
msgs = 'Data science uses that data to make companies more profitable rub sob part.'
```

```
for msg in msgs:
```

```
    search = re.match("\d+|bb",msg)
```

```
    print (search)
```

Question 7- Write a Python program that matches a string that has an 'a' followed by anything, ending in 'b'.

Answer:

```
string = 'Data science uses that data to make companies more profitable anjhejfb part.'
```

```
pattern = "a[\w*]+b"
```

```
result = re.findall(pattern,string)
```

```
print(result)
```

Question 8- Write a RegEx pattern in python program that matches a word at the beginning of a string.

Answer :

```
string = '1948 Data science uses that data to make companies 1988 more profitable rub sob part.'
```

```
result = re.match(r"\d+",string)
print(result)
```

Question 9- Write a RegEx pattern in python program that matches a word at the end of a string.

Answer:

```
string = 'Data science uses that data to make companies 1988 more profitable rub sob part.'
```

```
result = re.match(r"\w{4}",string)
print(result)
```

Question 10- Write a RegEx pattern in python program to find all words that are 4 digits long in a string.

Sample text- '01 0132 231875 1458 301 2725.'

Expected output- ['0132', '1458', '2725']

Answer:

```
text= '01 0132 231875 1458 301 2725'
```

```
matches =re.findall("\d{4}+",text)
print(matches)
```