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Assignment2

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).

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

```
import re
pattern = r"^a(b*)$"
text = "a"
match = re.search(pattern,text)
print(match)
output:
```

Answer:

```
Question 3- Write a RegEx pattern that matches a string that has an a followed by one or more b's
Answer:
import re
pattern = r''^a(b+)$"
text = "abbbb"
match = re.search(pattern,text)
print(match)
output:
<re.Match object; span=(0, 5), match='abbbb'>
Question 4- Write a RegEx pattern that matches a string that has an a followed by zero or one 'b'.
Answer:
import re
pattern = r"^ab?$"
text = "ab"
match = re.search(pattern,text)
print(match)
output:
<re.Match object; span=(0, 2), match='ab'>
Question 5- Write a RegEx pattern in python program that matches a string that has an a followed by
three 'b'.
Answer:
import re
pattern = r''^a(b{3})
text = "abbb"
match = re.search(pattern,text)
print(match)
output:
<re.Match object; span=(0, 4), match='abbb'>
```

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

```
Answer:
import re
pattern = r"^a(b{2,3})$"
text = "abb"
match = re.search(pattern,text)
print(match)
output:
<re.Match object; span=(0, 3), match='abb'>
Question 7- Write a Python program that matches a string that has an 'a' followed by anything,
ending in 'b'.
Answer:
import re
pattern = r"a.*b$"
text = "ahmadkhankhwab"
match = re.search(pattern,text)
print(match)
output:
<re.Match object; span=(0, 14), match='ahmadkhankhwab'>
Question 8- Write a RegEx pattern in python program that matches a word at the beginning of a
string.
Answer:
string= "python is super easy if you do practice of it"
find = re.search("^python.*",string)
print (find)
```

<re.Match object; span=(0, 45), match='python is super easy if you do pract

output:

ice of it'>

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

Answer:

string= "python is super easy if you do practice of it"

find = re.search("^.*it$",string)

print (find)

output:

<re.Match object; span=(0, 45), match='python is super easy if you do practice of it'>

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"

result=re.findall(r"\w{4}",text)
```

print(result)

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

output: