

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).

Ans. assignment = "we learned about regular expression on 22nd and 23rd june and got 10 questions as an assignment to complete in 1 week"

```
match = re.findall("[a-zA-Z0-9]+$",assignment)
print (match)
```

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

Ans. match = re.findall("ab*",assignment)
print (match)

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

ANS. match = re.findall("ab+",assignment)
print (match)

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

ANS. match = re.findall("ab?",assignment)
print (match)

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

ANS. `match = re.findall("ab{3}",assignment)`
`print (match)`

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

ANS. `match = re.findall("ab{2,3}",assignment)`
`print (match)`

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

ANS. `match = re.findall("^a.*b$",assignment)`
`print (match)`

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

ANS. `match = re.findall("^\\w+",assignment)`
`print (match)`

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

ANS. `match = re.findall("\\w+$",assignment)`
`print (match)`

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']

ANS. `pattern = '\\b\\d{4}\\b'`
`text = "1234 56789 9876 word1234word abcd5678efgh 123 12345"`

`Matche = re.findall(pattern, text)`

`print(match)`

Output: ['1234', '9876', '1234', '5678']

