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Address bar: [jupyter.org/try-jupyter/lab/](https://jupyter.org/try-jupyter/lab/)

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Code editor (Right):

```
[4]: Assignment 2
Question 1 - write a regex pattern in python program to check that string contains only a set of characters in this case a-z

[7]: def is_allowed_specific_char(string):
      string_re = re.compile(r'[^a-zA-Z0-9.]')
      string = string_re.search(string)
      return not bool(string)

      print(is_allowed_specific_char("ABcDEfabcDEF123450"))
      print(is_allowed_specific_char("*&%#!}{"))

      True
      False

[8]: #Question2 Write a RegEx pattern that matches a string that has an a followed by zero or more b's

[25]: def text_match(text):
        pattern = 'ab*?'
        if re.search(pattern, text):
            return 'match'
        else:
            return('Not matched!')

        print(text_match("abcc"))
        print(text_match("abc"))
        print(text_match("abbc"))
```

Bottom bar: Simple, 0, Python (Pyodide) | Idle, Mode: Command, Ln 3, Col 1, Assignments\_2, 29°C Haze, 18:13, 29-10-2023

Browser tabs: Data1 x, Data x, Data x, Project x, Jupyter x, REGEX x, Jupyter x, Upload x, Jupyter x, +

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Code editor (Right):

Launcher x Assignments\_2 x + Python (Pyodide)

```
match
match
match

[19]: #Question 3- Write a RegEx pattern that matches a string that has an a followed by one or more b's.
<

[24]: def text_match(text):
      pattern = 'ab+?'
      if re.search(pattern, text):
          return 'match'
      else:
          return('Not matched!')

      print(text_match("abcd"))
      print(text_match("abc"))

      match
      match

[19]: #Question 4- Write a RegEx pattern that matches a string that has an a followed by zero or one 'b'.
<

[23]: def text_match(text):
      patterns = 'ab?'
      if re.search(patterns, text):
          return 'match'
      else:
          return('Not matched!')

      print(text_match("ah"))
```

Bottom bar: Simple 0 1 Python (Pyodide) | Idle Mode: Edit Ln 3, Col 38 Assignments\_2 29°C Haze 18:14 29-10-2023

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Launcher Assignments\_2

Code Python (Pyodide)

```
[18]: #Question 4- Write a RegEx pattern that matches a string that has an 'a' followed by zero or one 'b'.
[25]: def text_match(text):
      patterns = 'ab?'
      if re.search(patterns, text):
          return 'match'
      else:
          return('Not matched!')

      print(text_match("ab"))
      print(text_match("abc"))

      match
      match

[26]: #Question 5- Write a RegEx pattern in python program that matches a string that has an 'a' followed by three 'b'.
[27]: def text_match(text):
      pattern = 'ab{3}?'
      if re.search(pattern, text):
          return 'match'
      else:
          return('Not matched!')

      print(text_match("abbbcccb"))
      print(text_match("aabbbbbc"))

      match
      match
```

Simple 0 1 Python (Pyodide) | Idle

Mode: Edit Ln 3, Col 38 Assignments\_2

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Browser tabs: Data | x | Data | x | Data | x | Proj... | Jupy... | REGE... | Jupy... | Uplo... | Jupy... | +

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Launcher

Assignments\_2

Python (Pyodide)

```
[28]: #Question 6- Write a RegEx pattern in python program that matches a string that has an 'a' followed by two to three 'b'.  
[29]: def text_match(text):  
      patterns = 'ab{2,3}?'  
      if re.search(patterns, text):  
          return 'match!'  
      else:  
          return('Not matched!')  
  
      print(text_match("abcbcb"))  
      print(text_match("aobbbbbb"))  
  
      Not matched!  
      match!  
  
[30]: #Question 7- Write a Python program that matches a string that has an 'a' followed by anything, ending in 'b'.  
[31]: def text_match(text):  
      patterns = 'a.*?b$'  
      if re.search(patterns, text):  
          return 'match!'  
      else:  
          return('Not matched!')  
  
      print(text_match("abbd"))  
      print(text_match("aobbbcb"))  
      print(text_match("accddjjjb"))  
  
      Not matched!  
      Not matched!
```

Simple 0 1 Python (Pyodide) | Idle

Mode: Edit Ln 3, Col 38 Assignments\_2

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Launcher

Assignments\_2

Code

Python (Pyodide)

```
[32]: #Question 8- Write a RegEx pattern in python program that matches a word at the beginning of a string.
[38]: def text_match(text):
        patterns = '^\\w+'
        if re.search(patterns, text):
            return 'match!'
        else:
            return('Not matched!')

print(text_match("Dr apj abdul kalam was a great scientist."))
print(text_match("Dr apj abdul kalam was a great scientist."))

match!
match!

[39]: #Question 9- Write a RegEx pattern in python program that matches a word at the end of a string.
[40]: def text_match(text):
        patterns = '\\w+$'
        if re.search(patterns, text):
            return 'match!'
        else:
            return('Not matched!')

print(text_match("Dr apj abdul kalam was a great scientis."))
print(text_match("Dr apj abdul kalam was a great scientis. "))
```

Simple 0 1 Python (Pyodide) | Idle

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