Q1. 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) Ansimport re string2 = "Google was officially launched in 1998 by Larry Page and Sergey Brin to market Google Search, which has become the most used web-based search engine" pattern2 = re.compile('[^0-9A-Za-z]+') result2 = pattern2.search(string2) if result2: print('matched') else: print('Notmatched') Q2. Write a RegEx pattern that matches a string that has an a followed by zero or more b's. Ansstring3 = "Google was officially launched in 1998 by Larry Page and Sergey Brin to market Google Search, which has become the most used web-based search engine" pattern3 = re.compile('ab*?') result3= pattern3.search(string3) if result3: print('match') else: print('not_match') Q3. Write a RegEx pattern that matches a string that has an a followed by one or more b's Ans -string4="India is a Beautiful Country" pattern4 = re.compile('ab+?') result4 = pattern4.search(string4) if result4: print('True') else: print('False') Q4. Write a RegEx pattern that matches a string that has an a followed by zero or one 'b' string5="Page's web crawler began exploring the web in March 1996, with Page's own Stanford home page serving as the only starting point" pattern5 = re.compile('ab??') result5 = pattern4.search(string5) if result5: print('True') else:

print('False')

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Q5. Write a RegEx pattern in python program that matches a string that has an a followed by three
'b'.
Ans. -
string6="Abbbs is a new outlet of barbeque and abbbs is located in Mumbai"
pattern6=re.compile('ab{3}?')
result6=pattern6.search(string6)
if result6:
  print('True')
else:
  print('False')
Q6. Write a RegEx pattern in python program that matches a string that has an a followed by two to
three 'b'.
Ans.-
string7="Abs is a new outlet of barbeque and abs is located in Mumbai"
pattern7=re.compile('ab{2,3}?')
result7=pattern7.search(string7)
if result7:
  print('True')
else:
  print('False')
Q7. Write a Python program that matches a string that has an 'a' followed by anything, ending in 'b'.
Ans.-
string8="They were completely overabsorbed in each other"
pattern8=re.compile('a.*?b$')
result8=pattern8.search(string8)
if result8:
  print('True')
else:
  print('False')
Q8. Write a RegEx pattern in python program that matches a word at the beginning of a string.
And.-
string9="The Avengers premiered at the El Capitan Theatre in Los Angeles on April 11, 2012"
pattern9=re.match('^\w+', string9)
if pattern9:
  print('True')
else:
  print('False')
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Q9. Write a RegEx pattern in python program that matches a word at the end of a string.
Ans. -
string10="The Avengers become divided over how to approach Loki and the revelation that
S.H.I.E.L.D."
pattern10=re.search('\b\w+[.!?,;]*$', string10)
if pattern10:
  print('True')
else:
  print('False')
Q10. 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.-
string11='01 0132 231875 1458 301 2725'
Result11=Result11=re.findall('\d{4}', string11)
Result11
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