**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:

def is\_allowed\_specific\_char(string):

charRe = re.compile(r'[^a-zA-Z0-9.]')

string = charRe.search(string)

return not bool(string)

print(is\_allowed\_specific\_char("ABCDEFabcdef123450"))

print(is\_allowed\_specific\_char("\*&%@#!}{"))

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

Ans:

def text\_match(text):

patterns = 'ab\*?'

if re.search(patterns, text)

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("ac"))

print(text\_match("abc"))

print(text\_match("abbc"))

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

Ans:

def text\_match(text):

patterns = 'ab+?'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("ab"))

print(text\_match("abc"))

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

Ans:

def text\_match(text):

patterns = 'ab?'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("ab"))

print(text\_match("abc"))

print(text\_match("abbc"))

print(text\_match("aabbc"))

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

Ans:

def text\_match(text):

patterns = 'ab**{3}**?'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("abbb"))

print(text\_match("aabbbbbc"))

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

Ans:

def text\_match(text):

patterns = 'ab{2,3}?'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("ab"))

print(text\_match("aabbbbbc"))

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

Ans:

def text\_match(text):

patterns = 'a.\*?b$'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("aabbbbd"))

print(text\_match("aabAbbbc"))

print(text\_match("accddbbjjjb"))

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

Ans:

def text\_match(text):

patterns = '^\w+'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("The quick brown fox jumps over the lazy dog."))

print(text\_match(" The quick brown fox jumps over the lazy dog."))

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

Ans:

def end\_num(string):

text = re.compile(r".\*[0-9]$")

if text.match(string):

return True

else:

return False

print(end\_num('abcdef'))

print(end\_num('abcdef6'))

**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:

x = [" I have 2004 rupees "," I have 3324234 and more" , " As 3233 " ,  
"2323423414 is good","4444 dc sav 2412441 asdf " , "random1341also and  
also" ,"","13"," a 1331 saves" ," and and as dad"," A has 13123123","  
A 13123","123 adn","1312 times I have told you"]  
  
p = re.compile(r'\d{4} ')  
  
for elem in x:  
if re.search(p,elem):  
print "Matched " + elem  
else:  
print "SKIPPED " + elem  
  
print "DONE"