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SET A
#1. Write a Python program to demonstrate the zero division error and
overflow error
import math
data = 50
try:
    data = data / 0 # data = data / 5
except ZeroDivisionError:
    print("Zero Division Error")
else:
    print("Division successful :", data) #Division successful : 10
try:
    a = math.exp(1000) #math.exp(2)
    print(a) #7.38905609893065
except OverflowError:
    print("Overflow Error")
Zero Division Error
Overflow Error
#2. Write a Python program to find sequences of lowercase letters
joined with a underscore
import re
def match(text):
        pattern = '[a-z] + [a-z] + \$'
        if re.search(pattern, text):
                return('Yes')
        else:
                return('No')
print(match(input("Enter Text :")))
Enter Text :kalpesh patil tybcs
No
#3. Write a python program to Check if String Contain Only Defined
Characters using Regex
import re
def check(str, pattern):
     if re.search(pattern, str):
           print("Valid String")
     else:
           print("Invalid String")
pattern = re.compile('^[179]+$')
check('179', pattern)
check('157', pattern)
```

## SET B

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#1. Write a Python program to match a string that contains only upper
and lowercase letters,
#numbers, and underscores.Write a Python program to raised the
attribute error, if attribute
#class object has no attribute with the name attribute.
import re
def text match(text):
        patterns = \frac{1}{a-z}A-Z0-9 ]*$
        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("Python is 1 Programming language"))
Not matched!
Found a match!
#1. Write a Python program to match a string that contains only upper
and lowercase letters,
#numbers, and underscores.Write a Python program to raised the
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#class object has no attribute with the name attribute.
import re
def text match(text):
        patterns = '^[a-zA-Z0-9]*$'
        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("Python is 1 Programming language"))
Not matched!
Found a match!
#3. Write a python to | Remove all characters except letters and
numbers
import re
my string = "python123:, .@! abc"
print ("The string is : ")
print(my string)
result = re.sub('[\W_]+', '', my_string)
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print ("The String after Removal is :")
print(result)

The string is :
python123:, .@! abc
The String after Removal is :
python123abc
```