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Roll No: 11

Assignment 5

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) #7.389056098930650
    """
The math. exp() method returns e raised to the power of x (Ex). 'e' is the base of the natural system of logarithms (approximately 2.718282) and x is the number passed to it.
    """
except OverflowError:
    print("Overflow Error")



# 2. Write a Python program to find sequences of lowercase letters joined with a underscore
"""
A regular expression (or re) specifies a set of strings that matches it; the functions in this module let you check if a particular string matches a given regular expression
"""
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 :")))



# 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('123', pattern)
```

SET B

```
"""
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 = '^[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"))
```

```
# 2. Write a python Program to Remove duplicate words from Sentence

string = "Python is good Python is for beginners beginners"

print(' '.join(dict.fromkeys(string.split())))


# 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)
print ("The String after Removal is :")
print(result)
```