**MODULE – 6 ASSIGNMENT**

**Regular Expression**

1. Write a Python program to check that a string contains only a certain set of characters (in this case a-z, A-Z and 0-9)

Answers:

import re

a= “Welcome to Python version 3 era.”

def contains\_only\_allowed\_characters(input\_string):

# Define the allowed characters using a regular expression

allowed\_characters\_pattern = re.compile(r'[a-zA-Z0-9]+$')

# Check if the input string matches the pattern

if allowed\_characters\_pattern.match(input\_string):

return True

else:

return False

print(f"{a}: {contains\_only\_allowed\_characters(a)}")

2) Write a Python program to replace all occurrences of space, comma, or dot with a colon.

Answers:

def replace\_chars(input\_string):

# Replace space, comma, and dot with colon

result\_string = input\_string.replace(' ', ':').replace(',', ':').replace('.', ':')

return result\_string

# Example usage

input\_text = "This is a sample, text. Replace spaces, commas and dots."

output\_text = replace\_chars(input\_text)

print("Original Text:")

print(input\_text)

print("\nText after replacement:")

print(output\_text)