PRACTICAL – 8

PROGRAM -1

AIM- Write a regular expression to find 5 letters word from target string with "c" and end with "r".

CODE-

|  |
| --- |
| import re  # Define the target string  target\_string = "This is a sample string containing some words like caaat, Color, caaar, and door."  # Define the regular expression pattern  pattern = r'\bc[a-z]{3}r\b'   # Find all matches of the pattern in the target string  matches = re.findall(pattern, target\_string, re.IGNORECASE)  # Print the matches  print("Five-letter words starting from 'c' and ending with 'r':")  for match in matches:      print(match) |

OUTPUT-

|  |
| --- |
|  |

PROGRAM -2

AIM- Write a regular expression in python to find words of any length that start from "n".

CODE-

|  |
| --- |
| #Write a regular expression in python to find words of any length that starts from n  import re  # Define the target string  target\_string = "This is a sample string containing some words like no, never, and onion."  # Define the regular expression pattern  pattern = r'\bn\w\*'  # Find all matches of the pattern in the target string  matches = re.findall(pattern, target\_string, re.IGNORECASE)  # Print the matches  print("Words starting with 'n':")  for match in matches:      print(match) |

OUTPUT:-

|  |
| --- |
|  |

PROGRAM -3

AIM- Write a regular expression to find IP address from the given document.

CODE-

|  |
| --- |
| import re  # Define the target string  target\_string = "The IP addresses are 192.168.1.1, 10.0.0.1, and 255.255.255.255."  # Define the regular expression pattern  pattern = r'\b(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\b'  # Find all matches of the pattern in the target string  matches = re.findall(pattern, target\_string)  # Print the matches  print("IP addresses found:")  for match in matches:      print(match) |

OUTPUT:-

|  |
| --- |
|  |

PROGRAM -4

AIM- Write regular expression for finding all the seven letter words from the document.

CODE-

|  |
| --- |
| import re    # Define the target string  target\_string = "This is a sample string vaishvi containing some seven-letter words like example and together."    # Define the regular expression pattern  pattern = r'\b\w{7}\b'    # Find all matches of the pattern in the target string  matches = re.findall(pattern, target\_string)    # Print the matches  print("Seven-letter words found:")  for match in matches:    print(match) |

OUTPUT-

|  |
| --- |
|  |

PROGRAM -5

AIM- write regualr expression to find all the speical charaters from the given document.

CODE-

|  |
| --- |
| import re  # Define the target string  target\_string = "This string contains some special characters like @#$%^&\*()!"  # Define the regular expression pattern  pattern = r'\W'  # Find all matches of the pattern in the target string  matches = re.findall(pattern, target\_string)  # Print the matches  print("Special characters found:")  for match in matches:      print(match) |

OUTPUT-

|  |
| --- |
|  |

PROGRAM -6

AIM- Write python program for regular expession to replace all the occursion of space or . or ,with colan .

CODE-

|  |
| --- |
| # Write python program for regular expession to replace all the occursion of space or .  or ,with colan .  import re  str = "This is a sample string. This is another sample string."  print(re.sub(r'[ ,.]', ':', str)) |

OUTPUT-

|  |
| --- |
|  |

PROGRAM -7

AIM- Create a function in python to find all the words that have atleast 4 charaters long in given string.The use of re.compile is manutory.

CODE-

|  |
| --- |
| import re  def find\_words(string):    pattern = re.compile(r'\b\w{4,}\b')    return pattern.findall(string)  string = "The quick brown fox jumps over the lazy dog"  print(find\_words(string)) |

OUTPUT-

|  |
| --- |
|  |

PROGRAM -8

AIM- Create a function in python to remove parenthesis in list of string ,the use of re.complie is manutory.

CODE-

|  |
| --- |
| # Create a function in python to remove parenthesis in list of string ,the use of re.complie is manutory.  import re  def remove\_parenthesis(strings):      # Compile the regular expression pattern to match parentheses      pattern = re.compile(r'\(|\)')      # Remove parentheses from each string in the list      result = [pattern.sub('', s) for s in strings]      return result  # Test the function with a list of strings containing parentheses  strings\_with\_parentheses = ["(Hello)", "Python", "(Programming)", "Language"]  strings\_without\_parentheses = remove\_parenthesis(strings\_with\_parentheses)  print("Original strings:", strings\_with\_parentheses)  print("Strings after removing parentheses:", strings\_without\_parentheses) |

OUTPUT-

|  |
| --- |
|  |

PROGRAM -9

AIM- WARE to check email address is valid or not

CODE-

|  |
| --- |
| # Write A Regular Expreesion to check email address is valid or not  import re  target\_string ="harsh@gmail.com  123asd  harshpmvd@gmail.com file@dfd.com"  pattern = r"[a-zA-Z0-9]@gmail.com"  matches = re.findall(pattern,target\_string)  print(matches) |

OUTPUT-

|  |
| --- |
|  |