

## Lab\_08: Using Regular Expressions.

### Variants:

1. **Email Search:**
  - Write a program that finds and prints all email addresses in a given text.
2. **Phone Number Extraction:**
  - Create a program that extracts and prints all phone numbers from a given text.
3. **Date Format Validation:**
  - Write a program that checks if a string conforms to a date format (e.g., "dd-mm-yyyy").
4. **Hashtag Extraction:**
  - Create a program that extracts all hashtags from a text (strings starting with the # symbol).
5. **URL Search:**
  - Write a program that extracts and prints all URLs from a text.
6. **IP Address Search:**
  - Create a program that finds all IP addresses in a given text.
7. **Duplicate Word Search:**
  - Write a program that finds and prints all duplicate words in a text.
8. **HTML Tag Search:**
  - Create a program that extracts and prints all HTML tags from a given string.
9. **Domain Name Search:**
  - Write a program that extracts all domain names from a text.
10. **Digital Value Search:**
  - Create a program that finds and prints all digital values in a string.
11. **Password Strength Check:**
  - Write a program that checks if a given string meets password complexity requirements.
12. **Time Extraction:**
  - Create a program that extracts all time values (e.g., "12:30") from a text.
13. **Abbreviation Search:**
  - Write a program that finds and prints all abbreviations (e.g., "NASA") in a text.
14. **File Name Search:**
  - Create a program that extracts file names (e.g., "file.txt") from a text.
15. **Color Search:**
  - Write a program that finds all HEX color values (e.g., "#FF0000") in a text.
16. **Credit Card Number Format Check:**
  - Write a program that checks if a given string conforms to the format of a credit card number.
17. **Keyword Extraction:**
  - Create a program that extracts and prints all keywords from a text (e.g., "import" in code).
18. **Expression in Brackets Search:**
  - Write a program that finds and prints all expressions in brackets (e.g., "(abc)" or "[123]") in a text.
19. **Search for Words of a Certain Length:**
  - Create a program that finds and prints all words of a specified length in a text.
20. **Text in Quotes Extraction:**
  - Write a program that extracts and prints all text enclosed in quotes (e.g., "Hello, World!").