

# ASSIGNMENTS - III

## 1. Full Name Formatter:

- Input first and last name.
- Print full name in uppercase and lowercase using string methods.

## 2. Email Validator:

- Input an email.
- Check if it contains '@' and ends with '.com'.

## 3. Sentence Word Counter:

- Input a sentence.
- Count how many times a specific word appears using `count()` or `find()`.

## 4. Remove Whitespace:

- Input a string with extra spaces.
- Use `strip()`, `lstrip()`, and `rstrip()` to clean it.

## 5. String Length:

- Input a name and print its length using `len()`.

## 6. Username Generator:

- Input full name.
- Generate a username by combining initials and length of name (no slicing).

## 7. Replace Word:

- Input a sentence and a word to replace.
- Replace all occurrences using `replace()`.

## 8. Masked Password Length:

- Input password as text.
- Print password length and replace all characters with '\*'.

#### 9. F-String Introduction:

- Input name, age, and city.
- Use f-string to format a greeting sentence.

#### 10. File Extension Checker:

- Input a filename.
- Check if it ends with '.pdf', '.jpg', or '.txt'.

#### 11. Word Capitalizer:

- Input a sentence.
- Capitalize each word using title().

#### 12. Initials Extractor (Split Only):

- Input full name.
- Use split() and indexing to print initials (no slicing).

#### 13. Vowel Counter:

- Input a sentence.
- Count how many vowels are in the string.

#### 14. Format() String Formatter:

- Input product name, price, and quantity.
- Display the bill using format() method.

#### 15. % Operator Formatting:

- Input student's name and score.
- Use % operator to print: 'John scored 92% in math.'

#### 16. Palindrome Logic (Optional without slicing):

- Input a word.
- Use loop to reverse manually and compare.

#### 17. Character Frequency Counter:

- Input a string.
- Count the frequency of each character using a loop and dictionary.

#### 18. Domain Extractor:

- Input an email address.
- Extract domain using `split('@')[1]` (not slicing).

#### 19. String Splitter:

- Input a sentence.
- Split it into words using `split()` and print each word.

#### 20. Phone Number Validator:

- Input a number as string.
- Check if it has 10 digits and all characters are numeric.