

Unit 5: Advance Python Concept

1. What is Regular Expression (Regex)?

👉 A sequence of characters used to define search patterns.

2. Why are regular expressions used?

👉 For pattern matching, validation, and text processing.

3. Which module is used for regex in Python?

👉 re module

4. What is pattern matching?

👉 Finding specific patterns in a string using regex.

5. What is a regex pattern?

👉 A string that defines a search rule.

6. What is re.match()?

👉 Matches pattern at beginning of string.

7. What is re.search()?

👉 Searches pattern anywhere in string.

8. What is re.findall()?

👉 Returns all matches as a list.

9. What is re.sub()?

👉 Replaces matched pattern with another string.

10. What is re.split()?

👉 Splits string based on pattern.

11. What is \d in regex?

👉 Represents a digit (0–9)

12. What is \w?

👉 Represents alphanumeric characters

13. What is . (dot) in regex?

👉 Matches any single character

14. What is * in regex?

👉 Matches 0 or more occurrences

15. What is + in regex?

👉 Matches 1 or more occurrences

16. What is GUI?

👉 Graphical User Interface used to interact with users visually.

17. Name Python GUI frameworks

👉 Tkinter, PyQt, Kivy

18. Which is default GUI library in Python?

👉 Tkinter

19. What is Tkinter?

👉 Built-in Python library for GUI development.

20. How to create a window in Tkinter?

👉 Using Tk()

21. What is mainloop()?

👉 Keeps GUI window running.

22. What are widgets?

👉 GUI elements like button, label, textbox.

23. What is Label widget?

👉 Used to display text

24. What is Button widget?

👉 Used to perform action on click

25. What is Entry widget?

👉 Used to take user input

26. What is event in GUI?

👉 User action like button click.

27. What is event handling?

👉 Responding to user actions.

28. What is command attribute in button?

👉 Links function to button click.

29. Difference between CLI and GUI?

- 👉 CLI uses text commands
- 👉 GUI uses graphical interface

30. Why GUI is user-friendly?

- 👉 Easy interaction using visuals