**Theory- Advance python**

1. **Introduction to the print() function in Python.**

The print() function is used to **display output** on the screen. Whether you're debugging code, showing results, or just experimenting, print() is your go-to function.

1. **Formatting outputs using f-strings and format().**

Example:- name = "Hardik"

age = 25

print(f"My name is {name} and I am {age} years old.")

1. **Using the input() function to read user input from the keyboard.**

Input function is Using in python programme for Taking Value from user side and its show in output.

Example:- a=input(“Enter the Value:- )

Print(a)

1. **Converting user input into different data types (e.g., int, float, etc.).**

**Example:- As per python language by default return everything as a string , to input as a another type, we need it convert manually.**

1. **Introduction to exceptions and how to handle them using try, except, and finally.**
2. **Understanding multiple exceptions and custom exceptions.**
3. **Understanding the concepts of classes, objects, attributes, and methods in Python.**
4. **Difference between local and global variables.**
5. **Single, Multilevel, Multiple, Hierarchical, and Hybrid inheritance in Python.**
6. **Using the super() function to access properties of the parent class.**
7. **Method overloading: defining multiple methods with the same name but different parameters.**
8. **Method overriding: redefining a parent class method in the child class.**
9. **Introduction to SQLite3 and PyMySQL for database connectivity.**
10. **Creating and executing SQL queries from Python using these connectors.**
11. **Using re.search() and re.match() functions in Python’s re module for pattern matching.**
12. **Difference between search and match.**