



CCIE HUB

SCHOOL OF NETWORKING



NETWORK AUTOMATION

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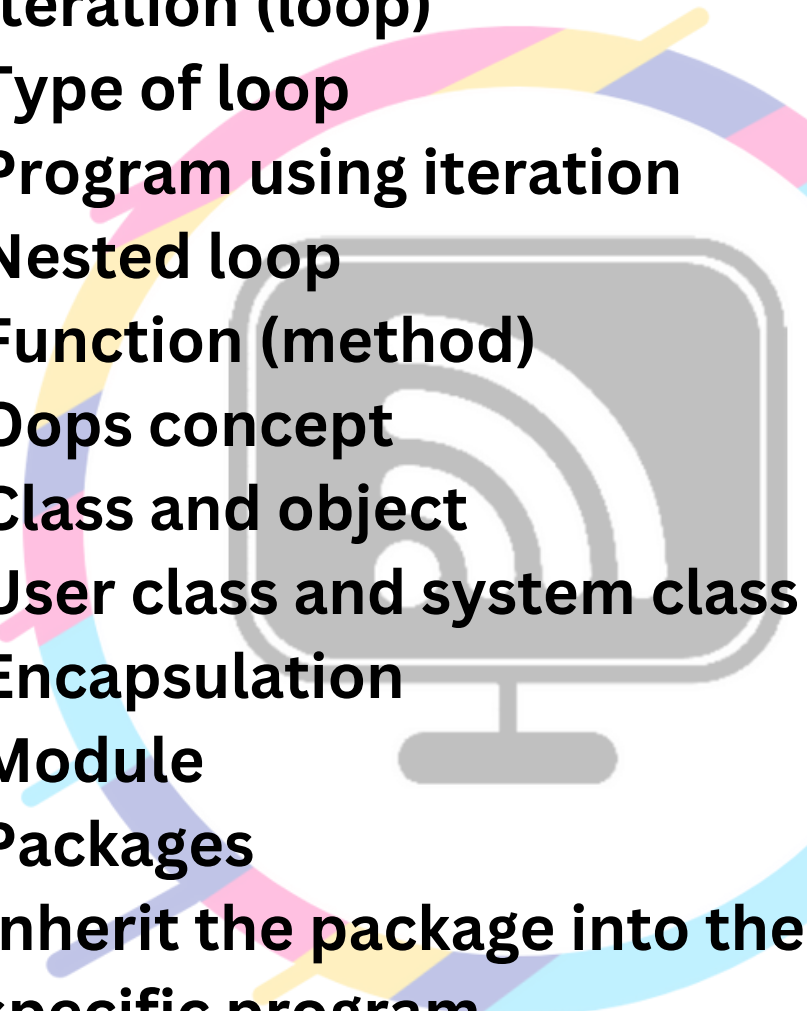
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Module - 1

Network Automation Fundamental

- Python introduction
- Difference between the interpreter and Compiler
- Data type
- Variable
- Basic program
- Operator and operand
- Operator type
- Comparison statement (if else statement)
- Conditional program
- Nested if else statement
- List
- Tuples
- Dictionary

- 
- **Iteration (loop)**
 - **Type of loop**
 - **Program using iteration**
 - **Nested loop**
 - **Function (method)**
 - **Oops concept**
 - **Class and object**
 - **User class and system class**
 - **Encapsulation**
 - **Module**
 - **Packages**
 - **Inherit the package into the specific program**
 - **Exception handling**
 - **File Handling**

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Module - 2

Python Automation / IOS Automation

- **Telnetlib**
- **Netmiko**
- **Paramiko**
- **Napalm**



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Module - 3

Ansible

- Introduction
- Lab installation
- Playbook
- Inventory
- Switch and router configuration with Ansible
- Git, Gitlab
- CI/CD pipeline
- Workflow Automation

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