Name _____ Roll#: _____ Section:_____

Department: **Cyber Security**   Program: **BS (CYS)**

Announced Date: **13 April,2025**   Due Date: **23ᵗʰ April,2025**   Total Marks: **03 Marks**
                                                                                   Marks Obtained: _____

Teacher Name: Sarwat Fawwad

Sr. No	Course Learning Outcomes	PLOs	Blooms Taxonomy
CLO_1	(Cognitive Level C2 Understanding)	(PLO_1, (Engineering knowledge)	C2 (Understanding)

Question: 01

- **Describe** the four fundamental principles used in problem-solving when developing a computer program.
- How is Python executed—through interpretation or compilation? Support your **explanation** with a relevant example

Question: 02

- Identify and **explain** three common types of programming errors. Additionally, describe how variables should be named and give examples of acceptable and unacceptable variable names.
- **Explain** the concept of literals in Python. List and **describe** the different categories of Python literals.

Question: 03

- In Python, **explain** the functionality of a one-way if statement and a two-way if-else statement. Include examples to support your explanation.
- **Describe** the role of logical operators in decision-making using if-else statements. Include examples in your **explanation**