

BCA 4th Semester Assignment

Paper: Python Programming

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Q1. Answer the questions in one/two sentences.

- a. What is the purpose of the Python interpreter?
- b. Define literals in Python.
- c. What is indentation in Python?
- d. Name any two types of operators in Python.
- e. What is the use of the `input()` function?
- f. What is a list in Python?
- g. What is exception handling?
- h. Name any one file reading function in Python.
- i. What is inheritance in Python?
- j. What is a list in Python?
- k. How is a tuple different from a list?
- l. What symbol is used to define a list in Python?
- m. What symbol is used to define a tuple?
- n. What is a dictionary in Python?
- o. How are keys and values stored in a dictionary?
- p. Name one method used to add an element to a list.
- q. Can dictionary keys be duplicated? (Yes/No)

Q2. Answer the questions briefly:

- a. Explain the role of the Python interpreter in program execution.
- b. Explain the difference between list and tuple with examples.
- c. What is a dictionary in Python? How are key-value pairs stored?
- d. What is exception handling? Explain the use of `try` and `except`.
- e. Explain the difference between `read()` and `readline()` functions in file handling.
- f. What is inheritance in Python? Give a simple example.
- g. What is the use of libraries like NumPy and Matplotlib in Python?
- h. What is anonymous function or lambda function? Explain with example.
- i. Explain different string slicing operation in python by giving few example.
- j. What is list comprehension? Explain with suitable example.
- k. Write a python program to create Student class with a constructor having more than one parameter (name, mark) and display method which print name and mark of the student.

Last date of submission of the assignment 18-04-2026

