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| **SESSION** | **FEB 2024** |
| **PROGRAM** | **BCA** |
| **SEMESTER** | **V** |
| **course CODE & NAME** | **DCA3104 & PYTHON PROGRAMMING** |
| **CREDITS** | **4** |
| **nUMBER OF ASSIGNMENTS & Marks** | **02**  **30** |

**Set-I**

**1. Write short notes on types of operators in python with appropriate example.**

**Ans:ARITHMETIC OPERATORS**

Python allows the use of various arithmetic operators that are used to perform mathematical operations such as addition, subtraction, division, multiplication, etc. These operators are essentially used to perform calculations using the Python programming language. The operators can be used on numeric data types such as integers, long integers, floating-point real numbers, complex numbers, and others that can be defined in Python. All these arithmetic operators

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**2. Explain about string slicing with examples.**

**Ans:**In Python, string slicing is a powerful and convenient feature that allows you to extract a portion (substring) of a string by specifying a range of indices. The syntax for string slicing is string [start: stop], where start is the index where the slice begins, and stop is the index where the slice ends (not inclusive).

**Here's an explanation with examples:**

**Basic String**

**3. Differentiate between local and global variables with example.**

**Ans:**In programming, local and global variables are terms used to describe the scope of a variable, determining where in the code the variable is accessible.

**Here's a differentiation between local and global variables in Python, along with examples:**

**Local Variables:**

**Scope:**

**Set-II**

**4. What kinds of errors can one encounter when writing in Python? Give a thorough explanation using examples.**

**Ans:**In Python, errors are categorized into three main types: syntax errors, runtime errors (exceptions), and logical errors.

**Let's explore each type with examples:**

**1. Syntax Errors:** Syntax errors occur when the code violates the Python syntax rules. These errors prevent the code from being execu

**5. Define python tuples? With example explain the concept of Accessing Values in tuples, updating tuples and deleting tuple elements.**

**Ans:**In Python, a tuple is a collection data type that is ordered and immutable. Tuples are similar to lists, but the key difference is that tuples cannot be modified after creation. They are created using parentheses ().

**Creating Tuples:**

# Creating a tuple

My tuple = (1, 2, 3,

**6. With suitable example explain the concept of using else statement with loops related to while loop.**

**Ans:**

In Python, the else statement can be used in conjunction with a while loop to specify a block of code to be executed when the loop condition becomes False. The else block is executed only if the loop completes its iteration without encountering a break statement.

**Here's an example to illustrate**