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| **SESSION** | **AUGUST 2023** |
| **PROGRAM** | **BACHELOR OF COMPUTER APPLICATION (MCA)** |
| **SEMESTER** | **5** |
| **COURSE CODE & NAME** | **DCA3104 – Python Programming** |
| **CREDITS** | **4** |
| **NUMBER OF ASSIGNMENTS &**  **MARKS** | **02**  **30 Marks each** |

**Assignment Set – 1**

**1a. Explain the features and application areas of python programming in detail.**

**1b. What are the different types of data types used in python programming?**

**Ans 1a.**

**Features and Application Areas of Python Programming**

Python is a versatile, high-level, and interpreted programming language, celebrated for its simplicity and readability. Here are its key features:

1. **Easy Syntax**: Python’s syntax is designed to be clear and intuitive, making it perfect for beginners.
2. **Interpreted**

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**2a. Explain membership and identity operators with example.**

**2b. Discuss the use of else statement with for and while loop.**

**2a. Membership and Identity Operators:**

In Python, membership and identity operators are used to test relationships between values or objects. They are often used in conditional statements to make decisions based on these relationships.

1. Membership

**3a. Write a program to delete duplicate elements from list without using remove () function.**

**3b. Explain the differences between list, tuple and set in detail.**

**Ans 3a.**

**Delete Duplicate Elements from a List**

Here's a simple program to delete duplicate elements from a list without using the **remove()** function:

def remove\_duplicates(input\_list):

# Empty list to hold unique elements

unique\_

**Assignment Set – 2**

**4a.“Hi, Python is very popular language”. Write a program to count the number of uppercase, lowercase characters, special characters and spaces in the above string.**

**4b. Explain the ways of deleting an element from dictionaries.**

**Ans 4a.**

**Program to count characters:**

s = "Hi, Python is very popular language"

def count\_

**5a. Explain the difference between keyword arguments and variable length function with example.**

**5b. Write a program to create user defined exception and raise it.**

**Ans 5a.**

**Difference between keyword arguments and variable-length functions with an example:**

Keyword Arguments: Keyword arguments allow you to pass arguments to a function using their parameter names, which can make the code more readable and flexible. In Python, you specify keyword arguments by using the parameter name followed by an equals sign (=) and the value you want

**6a. Write a program to implement any( ), all( ), sum( ), min( ), max( ), bool( ), bytes( ) functions. Explain their uses also.**

**Ans 6a.**

**Implementing Various Python Functions**

In this section, I'll provide Python code to implement some commonly used built-in functions and explain their uses:

**any()**