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| **SESSION** | **AUGUST 2023** |
| **PROGRAM** | **BACHELOR OF COMPUTER APPLICATIONS (BCA)** |
| **SEMESTER** | **V** |
| **COURSE CODE & NAME** | **DCA3102– VISUAL PROGRAMMING** |
| **CREDITS** | **4** |
| **NUMBER OF ASSIGNMENTS &**  **MARKS** | **02**  **30 Marks each** |

**Assignment Set – 1**

**1. Discuss the Architecture of .Net platform. What is Just-In-Time compiler?**

**Ans 1.**

The .NET platform is a widely used framework developed by Microsoft for building and running various types of applications, including web, desktop, mobile, and cloud-based applications. It provides a rich set of libraries, tools, and runtime environments to simplify software development and ensure interoperability across different programming languages. Let's discuss the Its Half solved only

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whatsapp no 8791490301.

**2. Write a detailed note on various data types and operators in .NET**

**Ans 2.**

**.NET Data Types:**

In .NET, data types are essentially classified into two broad categories: **Value Types** and **Reference Types**. Each data type, whether value or reference, determines the size and layout of the memory the variable occupies, the range of values that can be stored, and the set of operations that can

**3. Explain the features of Object-Oriented Programming concepts. Also discuss the concept of constructor and destructor with appropriate example.**

**Ans 3.**

Object-Oriented Programming (OOP) is a programming paradigm that uses objects to model real-world entities and their interactions in software development. OOP provides a structured and organized way to design and implement software, making it easier to manage complexity and maintain code. There

**Assignment Set – 2**

**4a.What is FileStream? Discuss the parameters required to create a FileStream object**

**Ans 4a.**

**FileStream** is a class in the .NET framework that provides a stream for a file, enabling both synchronous and asynchronous read and write operations. It is part of the **System.IO** namespace. The primary purpose

**b Discuss the various file modes used to open a file with appropriate example.**

**Ans 4b.**

The **FileMode** enumeration provides various methods to open a file. Here are the primary modes:

1. **Append**: Opens the file if it exists and seeks to the end, or creates a new file. This is useful for

**5. What is Data adapter? Explain its role in database**

**Ans 5.**

A **Data Adapter** is a crucial component in the world of databases and software development. It acts as a bridge between a database and an application, enabling the application to communicate with the database without needing to understand the intricacies of the database's internal workings. Let's delve

**6. Describe the concept of Exceptions in .Net environment. Explain the Exit Try statement with the suitable example.**

**Ans 6.**

**Exceptions in .NET Environment**

In the .NET environment, exceptions represent unexpected or exceptional events that occur during the execution of a program. These events can be due to various reasons, such as invalid input, file not found, network issues, or other runtime errors. Handling exceptions is crucial to ensure that the application can gracefully deal with errors and continue its execution or inform the user about