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| **PROGRAM** | **BACHELOROF COMPUTER APPLICATIONS (BCA)** |
| **SEMESTER** | **V** |
| **COURSE CODE & NAME** | **DCA3102 - VISUAL PROGRAMMING** |
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**Set-I**

**1. Explain the various VB.Net datatypes.**

**Ans 1.**

**Visual Basic .NET (VB.Net) Datatypes: An Overview**

Visual Basic .NET (VB.Net) is a flexible programming language that provides a range of data types that can be used to cater to various programming requirements. These types of data are essential to the creation of robust and efficient code. Knowing VB.Net datatypes is essential for developers to efficiently handle and manage data. Here is a thorough description of the various VB.Net datatypes.

**1. Numeric Data Types**

**a. Integer:**

* **Int32:** Represents 32-bit signed integers. Range: -2,147,483,648 to 2,147,483,647.

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**2. Explain and illustrate the.net framework's architecture.**

**Ans 2.**

The .NET Framework is a comprehensive and integrated environment developed by Microsoft specifically designed to facilitate the creation deployment, deployment, and implementation of secure, flexible, and high-performance software. It was developed in the late 1990s and has since evolved into a robust framework that supports different programming languages and libraries. Its design is designed to meet the requirements of many different applications for business, ranging

**3. What is JIT Compiler? Explain its types.**

**Ans 3.**

It is the Just-In-Time (JIT) compiler is an essential component of runtime environments such as that of the Java Virtual Machine (JVM) and the Common Language Runtime (CLR) in .NET that converts intermediate codes (such such as Java bytes as well as .NET's Common Intermediate Language, CIL) into native machine code. The primary benefit for JIT compiler is the fact that it compiles codes during time of execution, which means that it is able to optimize execution dynamically, based on the operating context in which it is currently. This results in significant

**Set-II**

**4. Explain Method Overloading & Overriding with example.**

**Ans 4.**

Overriding and method overloading are two fundamental concepts in object-oriented programming, which allow for more dynamic and flexible behaviour in applications. While both methods involve using techniques, they serve distinct objectives and are used in various contexts.

**Method Overloading**

Method Overloading refers to the capability of defining multiple methods in a class using the same name, but with different parameters. It is used to perform similar, but slightly different, functions dependent on the parameters passed into the methods. Overloading is identified at

**5. What is Inheritance? Explain its types.**

**Ans 5.**

Inheritance is an essential concept in the field of object-oriented programming (OOP) which allows classes to inherit properties methods, features, and other features from another class. Also known as the base class (or parent class), the class that is being inheriting from has a variety of characteristics that are shared across different objects. The class that inherits these features is referred to as the child class or derived class, is not only able to benefit from these features, but

**6. Explain DataAdapter class in ADO.Net.**

**Ans 6.**

**Understanding the DataAdapter Class in ADO.NET**

DataAdapter class DataAdapter class is an essential element of ADO.NET that acts as an intermediary between a data source and the DataSet. It permits the retrieval of data from databases into DataSets. It also allows for the conversion of data from a database into a DataSet and also allows to reconcile any changes made to the data contained in the DataSet with the data in the database. This class is essential for applications that need to interact with data via disconnected technology for data access. Here is a thorough description about DataAdapter class