**Module – 4**

**OOP Concepts**

1. **What is OOP? List OOP concepts**

The main ideas behind Java's Object-Oriented Programming Language. Basically, Java OOP concepts let us create working methods and variables, then re-use all or part of them without compromising security.

List OOP Concepts:

1.Abstraction

2.Encapsulation

3.Inheritance

4.Polimorphism

**2.What is the difference between OOP and POP?**

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| **OOP**  ➢ OOP is object-oriented.  ➢ The program is divided into objects.  ➢ Bottom-Up approach  ➢ Adding new data and functions is easy.  ➢ Access control is done with access modifiers.  ➢ Data can be hidden using Encapsulation.  ➢ Overloading functions, constructors, and  operators are done.  ➢ Used for solving big problems.  ➢ Example: C, VB, FORTRAN, Pascal | **POP**  ➢ POP is structure or procedure-oriented.  ➢ The program is divided into functions.  ➢ Top-down approach  ➢ Expanding data and function is not easy.  ➢ No access modifiers supported.  ➢ No data hiding. Data is accessible globally.  ➢ Overloading is not possible.  ➢ Not suitable for solving big problems.  ➢ Example: C++, JAVA, VB.NET, C#.NET. |