

**Nepal College of Information Technology**  
**Balkumari, Lalitpur**  
Tutorial-1

Subject: Programming Technology  
Program: BECE IV

Attempt all the questions.

1. How could you differentiate between structural and object oriented programming.  
Explain the main features of Object Oriented Programming?
2. Write about event oriented programming and subject oriented programming. Write the advantages of using IDE for software development.
3. What is aspect oriented programming? How aspect oriented programming solve the limitation of object oriented programming? Explain each core terminologies of AOP.
4. Explain the relationship between Model, View and Controller in MVC architecture. Differentiate between Thin and Thick Client.
5. How client server architecture is related to design the solution of larger software problem? Explain each of them with pros and cons.
6. What is .Net Framework? Explain the basic C# program structure with an example.
7. Define the term: Class, Object, Event and delegates in context of C# programming.
8. Introduce C# programming with its basic data types, literals, constants, operators and variables.
9. Explain each of the following with relevant example program: How C# programming provides the basic object oriented features like encapsulation, abstraction, polymorphism and inheritance.
10. What are the basic difference between C# array and C# Collections? Explain few of the available collections classes in System.Collections namespace.
11. Why namespace system is important in C#? Elaborate with suitable example.