**Lesson 10**

**Plan of the lesson**

* Manage an event log by using the *System.Diagnostics* namespace.
  + Write to an event log.
  + Read from an event log.
  + Create a new event log.
* Manage system processes and monitor the performance of a .NET Framework application by using the diagnostics functionality of the .NET Framework 2.0 (Refer*System.Diagnostics* namespace).
  + Get a list of all running processes.
  + Retrieve information about the current process.
  + Get a list of all modules that are loaded by a process.
  + *PerformanceCounter* class, *PerformanceCounterCategory*, and *CounterCreationData* class.
  + Start a process both by using and by not using command-line arguments.
  + *StackTrace* class.
  + *StackFrame* class.
* Debug and trace a .NET Framework application by using the *System.Diagnostics* namespace.
  + *Debug* class and *Debugger* class.
  + *Trace* class, *CorrelationManager* class, *TraceListener* class, *TraceSource* class, *TraceSwitch* class, *XmlWriterTraceListener* class, *DelimitedListTraceListener* class, and *EventlogTraceListener* class.
  + *Debugger* attributes.
* Embed management information and events into a .NET Framework application. (Refer *System.Management* namespace).
  + Retrieve a collection of *Management* objects by using the *ManagementObjectSearcher* class and its derived classes.
  + *ManagementQuery* class.
  + Subscribe to management events by using the *ManagementEventWatcher* class.