**President’s Problem**

**The president of Darts is convinced that the processor on his Windows Vista system is overloaded. How can you help him determine if there is a problem with the processor?**

Step 1:

To ascertain whether the CPU is having a problem or not: If the computer is warmer than usual and he hasn't done any work on it, he should check it.

Step 2:

Some viruses, like svchost.exe, which takes all the power and can increase CPU utilisation to 100% even when no heavier or simpler programmes are running on the system, may be to blame for processor overload. Such system activity demonstrates that viruses are affecting the CPU. Windows Vista's task manager can be used to identify CPU overloading or any other issues. The user must set up an antivirus programme that can detect and eliminate viruses, malware, and spyware in order to fix difficulties of this nature.

The student should discuss using the Reliability and Performance Monitor, looking at the Event Viewer, and possibly reviewing the findings of the self-diagnosis method.

**Darts is a sporting goods company with outlets in most of the western states. This company has a network of 10 servers and 273 client computers that have the following operating systems:**

• Eight Windows Server 2008 servers

• Two Linux servers running Red Hat Linux Enterprise

• 20 computers running Mac OS X version 10.7 Lion

• 32 computers running Windows 10

• 80 computers running Windows 8.1

• 46 computers running Windows Vista

• 95 computers running Windows XP

Darts realizes that with the projected growth of the company, they need to upgrade the computers and servers on their network.

Step 1:

The network has to be updated and modified as the business continues to expand. As a result, the corporation is concentrating on updating its servers, computer systems, and software.

All of the machines in the company's accounting division have Windows XP installed. The department's accounting director desires a Windows 7 operating system upgrade. An upgrade to the operating system would provide the department with some advantages, which are covered in the sections that follow.

Step 2:

First, Windows 7 offers a fantastic user interface that is easy for all users to utilise and allows them to do their desired activities. In comparison to Windows XP, the taskbar and system trays have significantly more user-friendly designs. Anyone who preferred the Windows XP interface, however, has the option to modify Windows 7's design to that of XP. The desktop slideshow and screen savers are further intriguing features that are especially useful for businesses. Users in the accounting department can turn on a desktop display of the most current financial statements to keep track of things. With this feature of Windows 7, the bookkeeping and other accounting functions bloom.

The fact that Windows 7 functions without any problems even with just 1GB of memory is another significant benefit for all departments, not just the accounting one. Windows 7 is, however, offered in two versions, one for 32-bit processors and the other for 64-bit processors. The accounting department can install a variety of demanding accounting software products and still work at a high processing speed with Windows 7 64-bit version despite the 64-bit version of Windows 7 requiring 4GB of RAM. In addition, Windows 7 offers more advanced security protections than Windows XP. Each account a user creates has access to high-level security features. The updated versions of Windows Office and Open Office offer fantastic features for the accounts users.

As Windows 7 requires at least 1 GB of RAM, the accounting department at Dart's company may experience hardware issues if it has less RAM, and upgrading an XP-based machine to Windows 7 is not always easy. Professionals often have no issues switching from Windows XP to Windows 7, while novice users may find it challenging to quickly adapt to Windows 7. Compatibility problems with specific software applications could also affect the accounting department.

Yes, the 32-bit version of Windows 7 can operate the 16-bit billing programme that was created for Windows XP. The user would need to choose the software and right-click for the choice of compatibility under Windows XP or earlier versions.

The marketing division of the Darts Company currently runs its everyday activities on computers running MAC OS X 10.4 Tiger. Although the corporation intends to replace the department's systems, only MAC systems can be deployed in advance. Because only Apple gadgets would be compatible with the programmes. Upgrading from MAC OS X 10.4 to an upgraded system like MAC OS X 10.6 has a number of advantages. For instance, an updated system offers improved security, and the marketing division of the Darts Company would guarantee the confidentiality of user data and other private information. The most recent system version has a user-friendly interface and is compatible with the majority of Windows programmes, much like the accounting department.