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***Assignment No 01***

***Submitted To Ms Quratulain***

**Q1. Explain why professional software is not just the programs that are developed for a customer.**

**Ans.** Professional software is not just the programs developed for a customer because the software is almost always packaged with associated documentation such as requirements, design models, and user manuals. A good or professional software goes beyond software developed solely for a customer. It is usually composed of executable code coupled  with documentation and configuration  of data that is required to make these programs operate correctly.  A professionally developed software system is often more than a single program. The system usually consists of a number of separate programs and configuration files that are used to set up these programs. It may include system documentation, which describes the structure of the system; user documentation, which explains how to use the system, and web sites for users to download recent product information.

**For example**, A word processing system consist of executable program, user manual and the document such as requirements and the design needed to produce the executable program.

**Q2. What are the four important attributes that all professional software should have? Suggest four other attributes that may sometimes be significant.**

**Ans.** The four important attributes that all professional software should have are following as.

1. **Maintainability**
2. **D**ependability and security
3. Efficiency
4. Acceptability

* **Other four attributes that may sometimes be significant are following as.**

1. Response Time
2. Interactivity
3. Reliable
4. Evolution

**Q3. Explain how the universal use of the Web has changed software systems.**

**Ans.** The universal use of web has transformed software systems and software systems engineering. Software engineering has proven to be a continuous development process. In the beginning, the web had very few certain effects on software systems, unlike we have it today.  
These days, the high use of web-based software development has highly affected the software industry. The points to show this are as given below.

• In place of monolithic development most of the applications are developed for web users.  
  
• The updating and maintenance of web-based software is easy. Changes made at one place will effect globally.  
  
• Software is developed in parts. One part is developed at one place and second is developed at any other place. By using web it becomes easy to collect all parts to make a working application.  
  
• Popular technologies like HTML5 and AJAX are mostly used for web software development. These are web-based technologies that a vast majority of people interact with on a daily basis.

Q4. To help counter terrorism, many countries are planning or have developed computer systems that track large numbers of their citizens and their actions. Clearly this has privacy  
implications. Discuss the ethics of working on the development of this type of system.

**Ans.**

* The system will violate the privacy of the people is the based of human rights. In the past years American citizens has already complained about illegal wiretapping in their house performed by the FBI
* Even the most recent patriot acts which give permission for federal officer to eavesdrop on telephone conversations brings controversy to the community eventhough it is for sake of countering terrorism.
* Hence this system might be oppressed by the citizens and clearly unethical to the privacy of human kind