Lab 01

1. What are the differences between Web Services and Cloud Services?

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|  | Web Services | Cloud Services |
| Definition | The activity or business of providing storage space and access for websites. | The practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer. |
| Differences | Web services will involve a web hosting company serving only one client per server. This benefits individual a more security than cloud services. | Cloud services are for multiple people as the files and data resources of multiple clients are placed on the same server. Cloud services are more flexible and on-demand for each client. iCloud is an example of cloud services. |

1. Please briefly describe the main differences between Big Data and Data concept. What are we going to use in ASP.NET course.

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|  | Big Data | Data Mining |
| Definition | Extremely large data sets that may be analyzed computationally to reveal patterns, trends, and associations, especially relating to human behavior and interactions. | The practice of examining large databases in order to generate new information. |
| Differences | It’s more like a general term as it refers to a big set of data. Unlike data mining, we can see a bigger picture by looking at big data. It helps us to predict a size of a data and the growth of data by seeing the relationship of data. (Predictive measure) | Data mining is about looking into a detail of data like analysing. It is generally used for determining credit score, fraud detection, etc. It can be used for both small data and large data. (Decision making) |

In ASP.NET course, we can use both big data and data mining.

1. Which one is safer to use in connecting to SQL Server?
   1. Windows authentication
      1. Symmetric key (secret key) – same key for encryption and decryption
   2. SQL authentication
      1. Asymmetric key (public key) – different key for encryption and decryption
   3. Both Windows and SQL authentication

* Please explain which one uses asymmetric key and which one uses symmetric key?

1. Search about Storyboards (google, YouTube, etc.) and briefly explain about it.

It is a simply drawing which doesn’t require special drawing skills. It displays problem solving process. It approaches to a client emotionally.

1. Search about Paper Prototype (google, YouTube, etc.) and briefly explain about it.

It uses papers and pens to draw the idea of the webpages and how it will look like before actually start to build a website.