Lab 2: Standards

**Brain Storming Task:**

You work for a research company as a member of the **Experimental Research Team**. Presently, the company is growing quickly and to exchange files, users must physically walk a disk or drive over to someone else if they wish to share files; this is inefficient. The company wants your team to develop a new way to exchange files electronically between to two computers using a cable. Today, is the first meeting of the team to discuss the problem. Assume, that due to some reason the team cannot meet, and the team leader has asked all the team members to send their suggestions before having a formal meetup. Being the team member submit your suggestions.



**Instructions:**

1. Identify the two most important topics or components that are necessary for communication to occur.

The two most important components of communication are Encoding and Decoding.

1. Discuss that why the proposed components are important.

**Encoding:-** Encoding is one of the most important parts to send message. Encoding it the medium through which the sender can send the message directly to the receiver end. For example, when we send the data from one computer to another computer it cannot send the message directly as it is. The computer will convert the message first into the binary digits and then it sends the data to the receiving computer because wires can only transmit the binary numbers.

**Decoding:-** Decoding is the exactly opposite process of encoding it converts the encoded binary digits into the human readable language because of that the receiver can be able to understand the message properly at the receiving end.

**Encoding:**

1. Do a Google search and find the ASCII decimal and binary values for the capitalized first letter of your first name .
2. Write the decimal value 74 . Write the binary value 1001010

**Standard Making Bodies**

Do a Google search and write the answers in the space below. Use your own words. DO NOT copy and paste the answers. The answers are all one line of text.

1. **International Organization for Standardization (ISO)**
2. What is the web site address for the ISO?

The website address for the ISO is [https://www.iso.org/home.html](%20https:/www.iso.org/home.html)

1. What type of standard making body is it and who are its members?

ISO is a global network of standard bodies, and the members of ISO group members are from the members of standard organizations from their countries and only one person is selected as the ISO group member per country which represents ISO group in their own country

1. What is an example of an ISO standard?

Currency Codes (ISO 4217), Information Security management (ISO 27001), Food Safety (ISO 22000) etc. are the examples of ISO standard

1. **Institute of the Electrical and Electronic Engineers (IEEE)**
2. What is the web site address for the IEEE?  
   The web site address for IEEE is <https://www.ieee.org/sitemap.html>
3. What type of standard making body is it and who are its members?  
   The IEEE selects the standards through the open process which engages with industry and stakeholder community.
4. What is an example of an IEEE standard?  
   IEEE Wi-Fi standards (IEEE 802.11), Rechargeable battery standard(IEEE 1725) etc. are the examples of an IEEE standard
5. **International Telecommunications Council (ITU-T) Telecommunications**
6. What is the web site address for the ITU?  
   The web site address for the ITU is <https://www.itu.int/en/Pages/default.aspx>
7. What is the web site address for the ITU-Telecom?  
   The web site address for the ITU-Telecom is <https://digital-world.itu.int/>
8. What type of standard making body is it ITU-T and who are its members?  
   The ITU-T is a sector of ITU which engages with all the companies involved in creating standards in the telecommunication industry. The members are from various positions such as government members, private industry members etc.
9. What is an example of an ITU-T standard?

E-mail standard (X.400) is an example of an ITU-T standard

1. **What is the name of Canada’s standard organization?**The name of Canada’s standard organization is Standards Council of Canada (SCC)
2. What is its mission or mandate?

The mission of SCC is to “improve the Canadians quality of life and their economic prosperity”.

**Grading:**

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Remember replacing **learnname** with **your name** for submission.

Submit using the Lab2 Submission link under MySeneca\Graded Work