**ACTIVITY 1.2: EXPLORING INPUT AND OUTPUT CHANNELS**

**Objectives**

1. Determine how human receives and responses information.
2. Compare and contrast the effectiveness of input/output channels used by human.

**Materials**

* Personal Computer
* Internet connection

**Procedure**

1. Go to [http://www.Existor.com](http://www.existor.com) website.
2. Click Artificial Intelligence tab.
3. Click Avatar
4. Explore and make conversation with character like Evie.
5. Note down your impression while doing conversation.

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| **Impression:** | |
| **Positive** | **Negative** |
| **How do you feel about life** | **What about the bad things that people do, do you think its acceptable** |
| **I love life** | **I also don’t like them I wish they would stop** |
| **What do you think about corona virus?** |  |
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1. Print screen the conversation made. (Adjust your image)

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1. Click Voice and do communication using speech recognition.
2. Note down your impression.

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| Impression:  While AI voice recognition has come a long way, continuous refinement and innovation will drive even more impressive advancements in the future! Improving context sensitivity, handling diverse accents and dialects, and filtering out ambient noise are crucial steps. Personalization, multilingual capabilities, and a real-time feedback loop would enhance user experiences. Additionally, mimicking natural pauses and intonation, ensuring privacy, and integrating with other services are essential considerations. Reducing latency between spoken input and AI-generated output remains a priority. As technology evolves, we can look forward to even more seamless and accurate voice interactions! |

1. Open a word processing software and make a 300-words document on your realizations from the said activity.

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| Realization:  In the grand symphony of information processing, artificial intelligence (AI) and humans play different instruments. AI, like a virtuoso, processes vast amounts of data rapidly. It receives information through various channels: textual input (analyzing articles and chat logs), visual input (interpreting images), and auditory input (converting speech to text). AI recognizes patterns, makes decisions, and generates coherent responses based on learned patterns. However, it lacks true creativity and context awareness.  In contrast, humans engage in a rich sensory experience. Our eyes capture light, allowing us to recognize faces, objects, and scenes. Our ears detect sound waves, interpreting speech, music, and environmental noise. We feel textures, pain, and warmth through tactile sensation. Our cognitive processing involves attention, memory encoding, and emotional responses. We excel at understanding context, sarcasm, and nuances. Our creativity, imagination, and empathy shape our interactions.  Comparing AI and Human Channels  Similarities:  Input Channels: Both AI and humans receive information through sensory channels (text, images, sound).  Processing: Both process information to extract meaning, recognize patterns, and make decisions.  Output Channels: Both generate responses (text, speech, actions) based on processed information.  Differences:  Speed: AI processes vast amounts of data rapidly, while humans have limited processing speed.  Accuracy: AI can analyze data without bias, but humans may be influenced by emotions or cognitive shortcuts.  Context: Humans excel at understanding context, sarcasm, and nuances. AI struggles with context awareness.  Creativity: Humans exhibit creativity, imagination, and empathy. AI lacks true creativity.  In summary, AI and humans are like musicians in a grand orchestra—each contributing unique strengths to the symphony of information processing. While AI dazzles with its speed and precision, humans infuse creativity, context, and emotional depth into the composition. Together, they create a harmonious blend that propels us toward an exciting future of intelligent collaboration |