

## Lecture - 3

Q: "Interaction : communication between user & System", is it true? Prove it.

Ans: Yes, the statement is true in the context of Human Computer Interaction (HCI).

Interaction in HCI refers to the communication and exchange of information between users and computer systems. The main reasons of the statement becoming true are:

1) User Input: Interaction involves users

providing ~~the~~ input to the system.

2) System Feedback: Once users provide input, the system responds with feedback.

3) Two way communication: Interaction is a two way process. Users communicate their needs or commands to the system, and the system, in turn, communicates its responses.

• Give action back to the users.

1) User centered design: HCI principle

(UDI) emphasize user centered design, which places importance on understanding user needs, preferences and behaviors.

2) User Experience (UX): Positive user experience are closely tied to successful interaction.

3) Adaptability: Interaction involves adaptability on both sides. Users adapt their inputs based on system feedback, and systems adapt their responses based on user inputs.

for example: Voice assistant (e.g: siri, Google assistant). It is the good example in the context of HCI. Because it has:

- 1) User Intent (Input): User interaction by speaking a command
- 2) System Processing: Voice assistant processes the user's input
- 3) System Response (Output): Generates a response based on the user's input.