START User

Social bonding

Robot: "You might have noticed that there are many books about design laying here on the table/behind me."

Robot: "I have been interested in architecture for a long time. I really enjoy looking at modern buildings of Rem Koolhaas. He shook up the cultural landscape with his provocative designs. The Innovation Tower in Stockholm is one my favorite designs. It is located in my home country, Sweden"

Mood priming To be filled in

Robot role

Robot: "I am here to help foster your creative potential. There is a wealth of information out there and I can help filter and tailor to fit your specific needs and curiosities. Let's see what we can uncover and create."

Defining the Creative Space If user does not **Definition of** Robot: Let's start. You can now flip the page to see what word we are working with. understand Could you read it out loud? the object User: yes.. it is a brick. Robot: A brick. To make sure, we think of the same object, could you tell me in few word what a brick is? User: tells what brick is (if he does not know, Furhat gives a definition) **Explanation** Robot: Ok, we are on the same page. Tell me what you know about the task we are about to do? of the task User: explains the task. Robot: So let's try to brainstorm together. You can also use pen and paper to write ideas but please make sure to read them to me because I am not able to read yet. OK, let's (brick) **Inventory ideas** Robot: "Let me share with you what other people came up with. Some pretty good ideas were: using a brick to sand off paint, to play brick jenga or to use it as an anchor." **MANIPULATION Associative technique Feedback** Robot: What came first to your mind first? **Pushing the limits** User: idea 1, idea 2, idea 3. Robot: Could you extend these idea in a **Evaluate similar examples** more creative way and try generate even Robot: Could you somehow incorporate your past creative more alternative uses for a brick? Think mentioned at the beginning of the conversation? Think for a moment about it for a moment and let me know **Feedback Provocative technique** Robot: "Could you name three characteristics of a brink?" User: "a, b, c " **Pushing the limits** Robot: "Write down now an opposite word to each of them. What ideas comes to you mind now? " **Feedback** Confrontative technique Robot:"I will give you a random word now. Let's say a needle. Would you be able to **Pushing the limits** generate some ideas starting having this work in mind?" **EXIT Break loose** Robot: "I'd like you to have one last go. Break loose. One last

BRAINSTORMING: HOW ROBOT'S FEEDBACK AFFECTS HUMAN CREATIVITY?

Task: Come up with alternative use for an object (brick)

Types of feedback:

- praise
- encouragement and acknowledgment
- relational (memory, humor, consolation, etc.
- comparative
- empathic
- personalized feedback
- polite/impolite

Robot: "I'd like you to have one last go. Break loose. One last chance here today to try out your most creative ideas. Let me see what you got"