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| Question | Answer | Category |
| Should the machine be portable (size)? | Yes | Objective |
| What type of pen do you want to use for drawing? | Marker, pen, sketch pens. | Function |
| What kind of art form do you want? | Few possible art forms | Objective |
| What should be the screen size? | The screen should be of size 30cm by 45cm.` | Constraint |
| What kind of substrate do you want to use? | 2D and 3D substrates. | Constraint |
| What if the ink of the marker finishes, do you want an indication for that? | Yes | Function |
| What kind of drawing bot do you need? | XY-Plotter, XYZ-Plotter | Function |
| By what duration do you want it to be completed? | 3 months | Constraint |
| What is your budget? | Around 4000 | Constraint |
| Do you want an indication for low battery? | Yes | Function |
| Do you want an indication for any error arising in the machine? | Yes | Function |
| What convenience do you need with respect to the movement of machine? | The machine should have wheels to facilitate easy movement. | Function |
| What should be the time taken to complete each drawing? | Maximum 5 minutes | Constraint |
| What should be the maximum weight of bot? | Maximum 2kg | Constraint |
| Do you want to draw on 3D objects? | Yes | Objective |
| What other special feature do you need? | The machine must be able to write. | Function |
| What kind of drawing do you need? | 2D and 3D drawings | Function |
| Should the machine be durable? | Yes. | Objective |
| Do you want an indication for the completion of process? | Yes. | Objective |

**Problem Definition:**

Design a semi-automatic drawing bot which is capable of drawing few possible 2D and 3D art forms on 2D and 3D substrates. Machine must weigh around 2 kg. It should be able to draw each drawing in about 5 minutes. The machine should be durable, portable and also should have wheels. The machine must have a special feature of writing and also give indication when the drawing is complete, any error arising or for low battery. The total cost of the machine should be maximum Rs 4000.