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| 1) Can it draw all types of drawings that we are willing to do? | NO,only the simple art shapes. | Objective |
| 2)Can the machine only sketch or also it can color? | NO,it can only sketch. | Function |
| 3) Is the machine portable? | YES | Objective |
| 4)In what budget you can do it? | Around Rs.3000 | Constraint |
| 5) How much time it requires to complete a drawing? | 10 minutes | Constraint |
| 6)Can it adjust the size of drawing as desired? | YES | Function |
| 7)Can it hold all size of pens/markers? | YES | Function |
| 8)In what time the project can be completed? | Around 3 months | Constraint |
| 9)Can it draw on different substrates? | YES | Function |
| 10)Can it fit in volume of 2 cubic feet? | YES | Constraint |
| 11)Will the drawings be accurate? | YES | Objective |
| 12)Can it write also? | YES,but only simple letters. | Function |
| 13)What should be the weight of machine? | Around 2 kg | Constraint |
| 14)Is it user friendly? | YES | Objective |
| 15)For how many hours can it work continuously? | 2 hours | Constraint |
| 16) Will it alert the user once the drawing is completed? | YES | Function |

PROBLEM DEFINITION:

Design a Drawing Bot Machine which can draw some simple art shapes, accurately, which is portable and user friendly in nature. Machine must weigh around 2Kg, and have volume of 2 Cubic ft , complete a drawing in 10minutes, work continuously for 2 hours, and built in the budget of Rs.3000.Machine should be able to draw on different sizes of sheets and on different substrates, use markers of different sizes, also write simple letters and alert the user once the drawing is completed.