

# Summer Internship

At

**AMC Solutions corporation.**  
Software Technology parks of India,  
Chikalthana, Aurangabad.

**Submitted By:**  
Nagsen P. Nandurgekar  
07613008  
Jr. P.D., IDC, IIT-Bombay

Sales : Computers, hardware, bar-coding.

Services : Software, Engineering Placements.

Education : Miracle Multimedia for animation & Graphics Design

PDS – Product Design School

Online Products : Demand or Supply. [www.demandorsupply.com](http://www.demandorsupply.com)

National logistics & transfer Exchange. [www.nlte/india.com](http://www.nlte/india.com)

Projects : Cotton greaves, endurance, Bajaj Auto, Tata Motors.. Etc.

Advertisement chair

Card stand

Car Cover

Syllabus updation for PDS.

Understand problem

Market survey

Ideation

Grouping

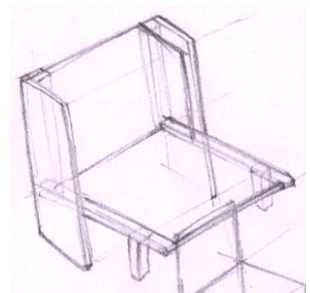
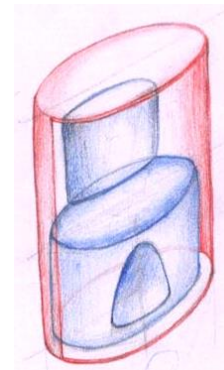
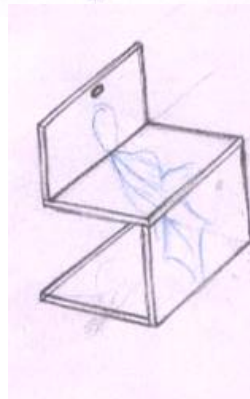
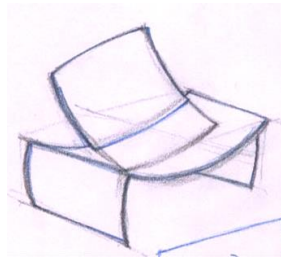
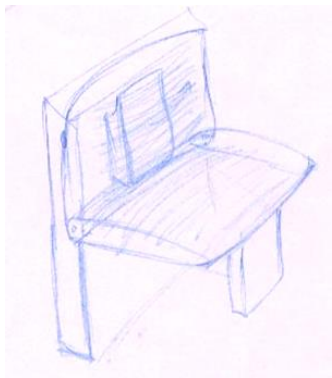
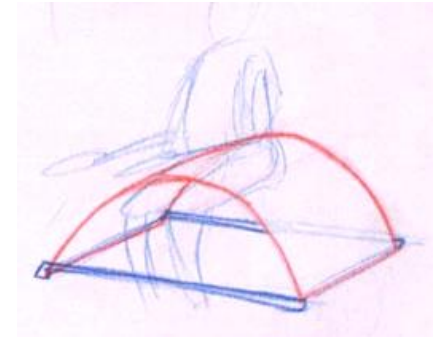
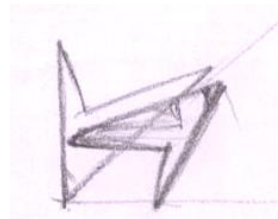
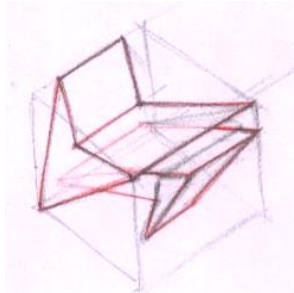
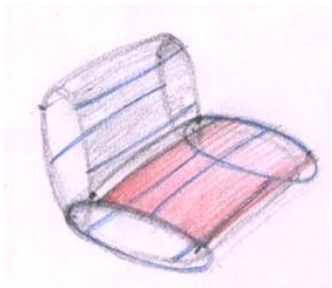
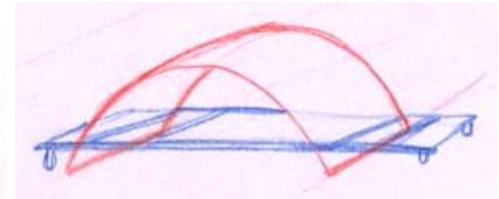
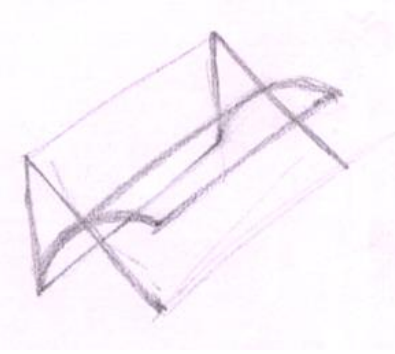
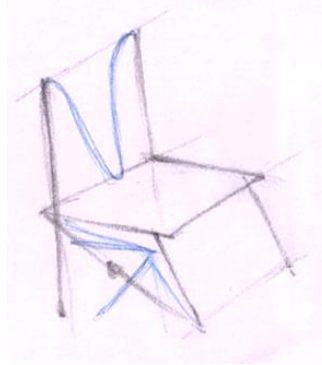
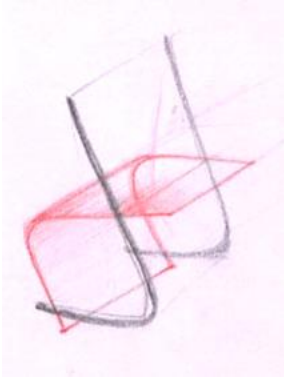
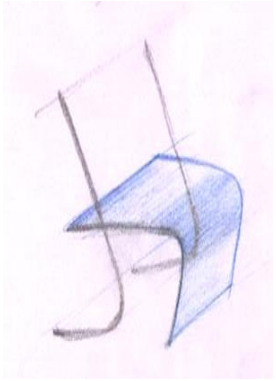
Representatives

Concepts

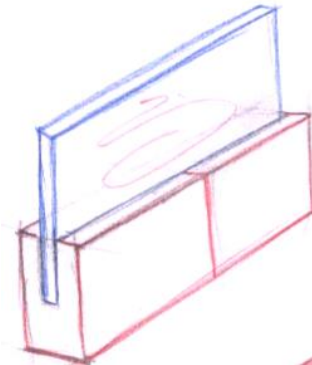
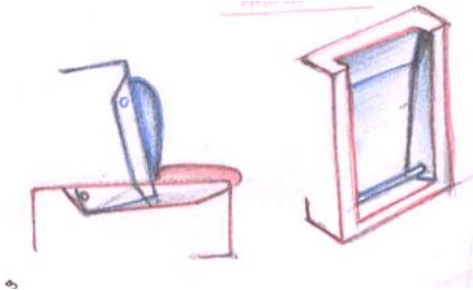
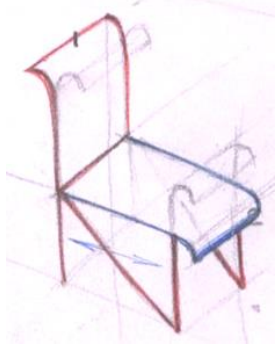
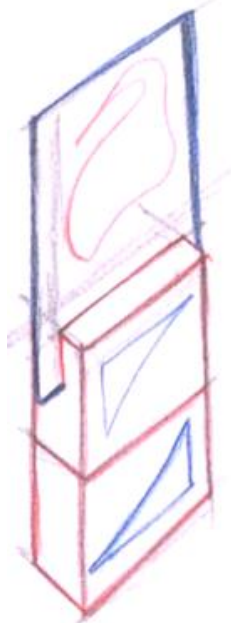
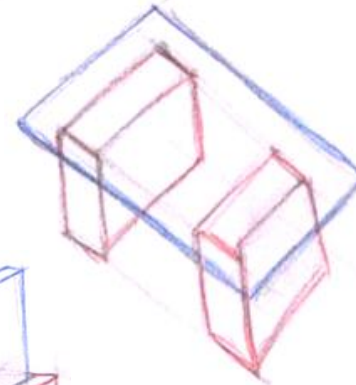
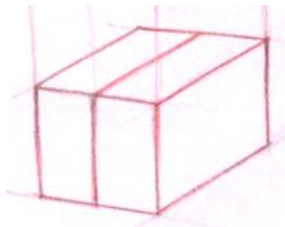
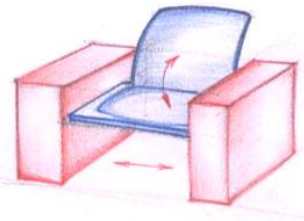
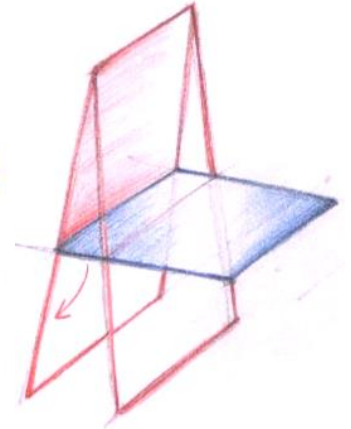
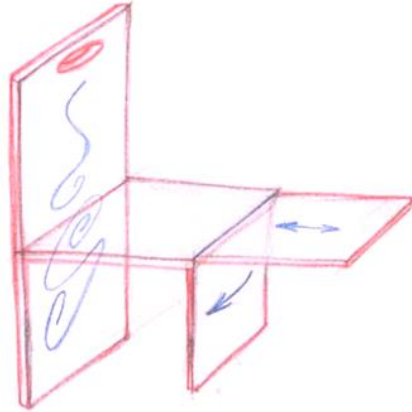
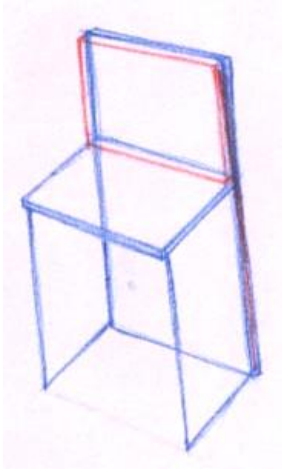
Models

- Prime requirement advertisement potential
- Should acquire less space when not in use
- To be used in restaurants, fast food centre

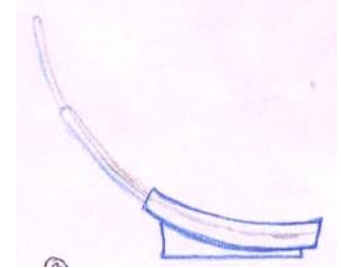
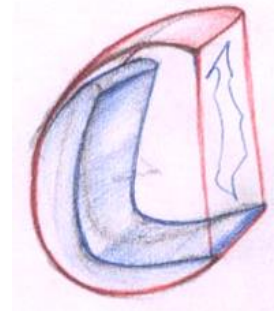
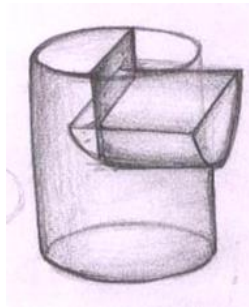
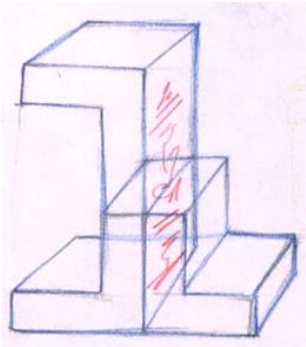
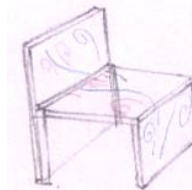
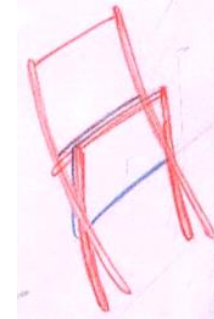
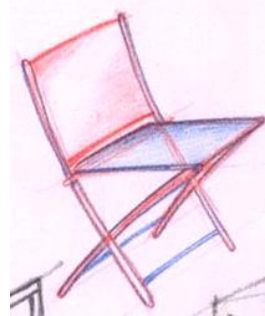
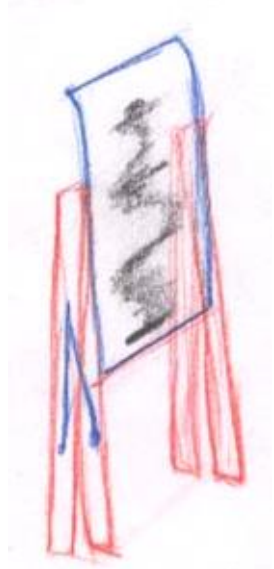
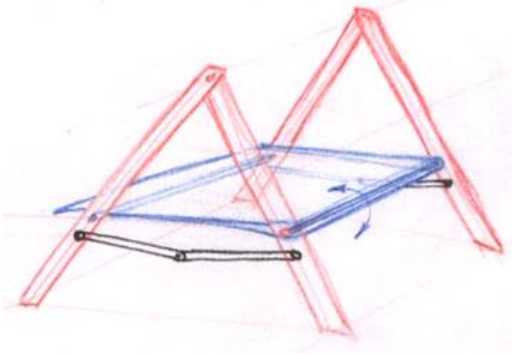
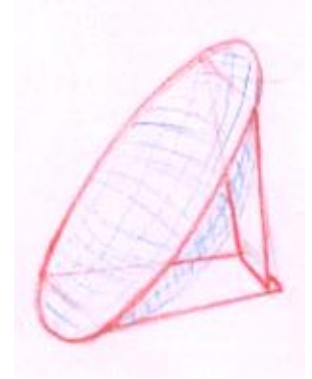
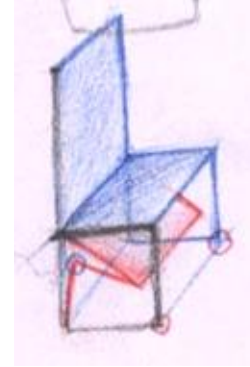
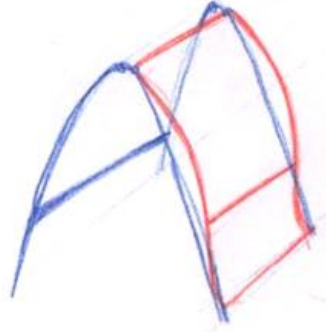
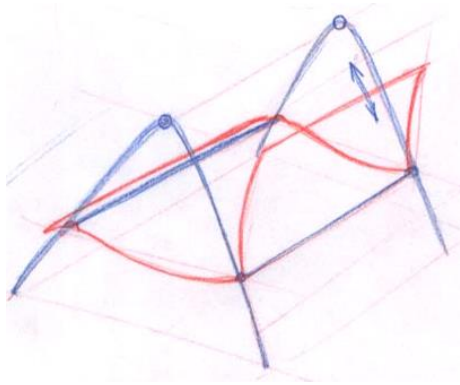
# Ideation – Chair



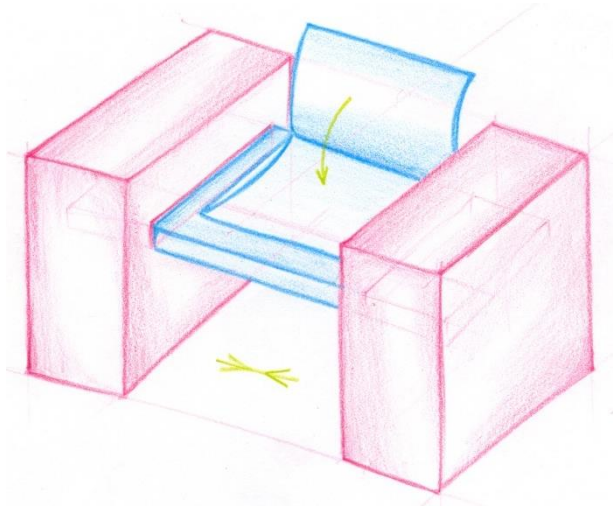
# Ideation – Chair



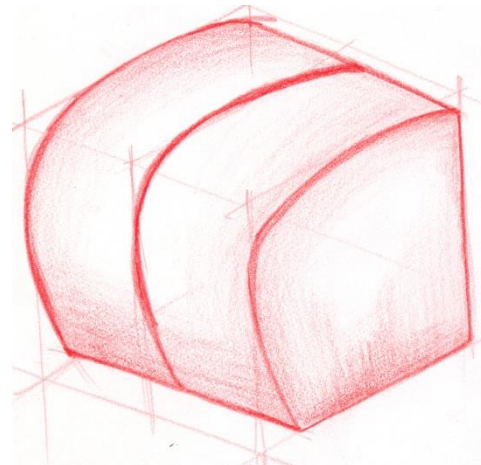
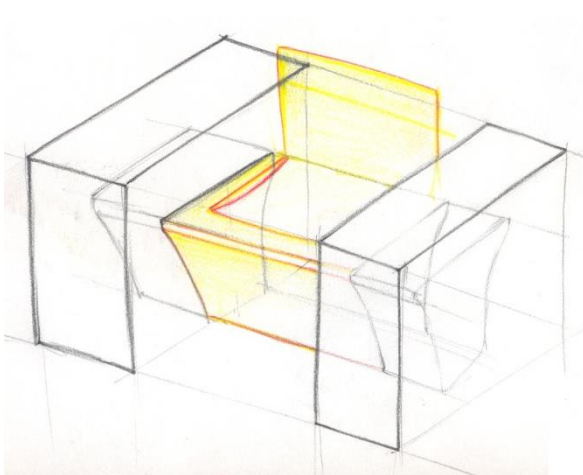
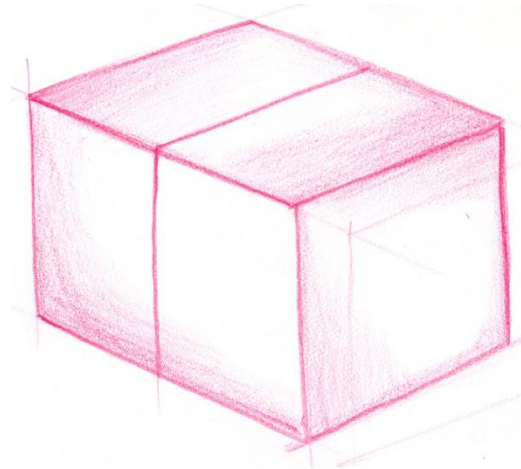
# Ideation – Chair



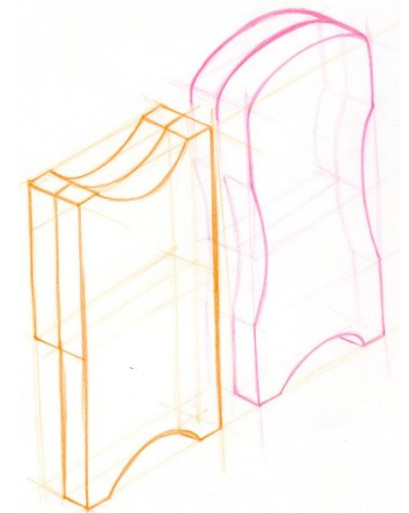
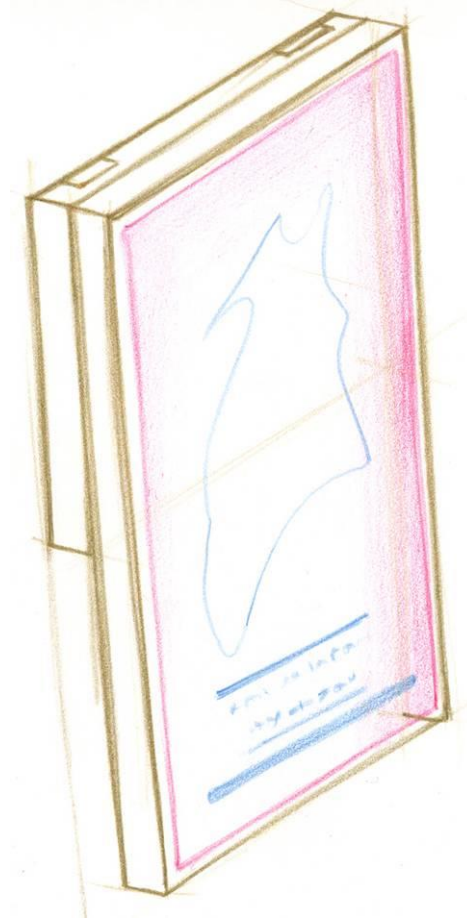
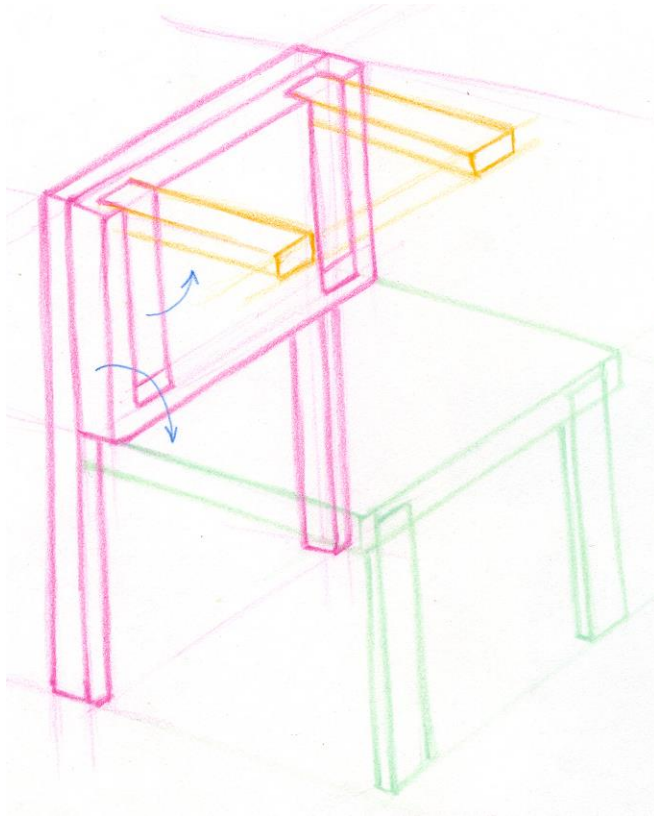
# Exploration – Chair



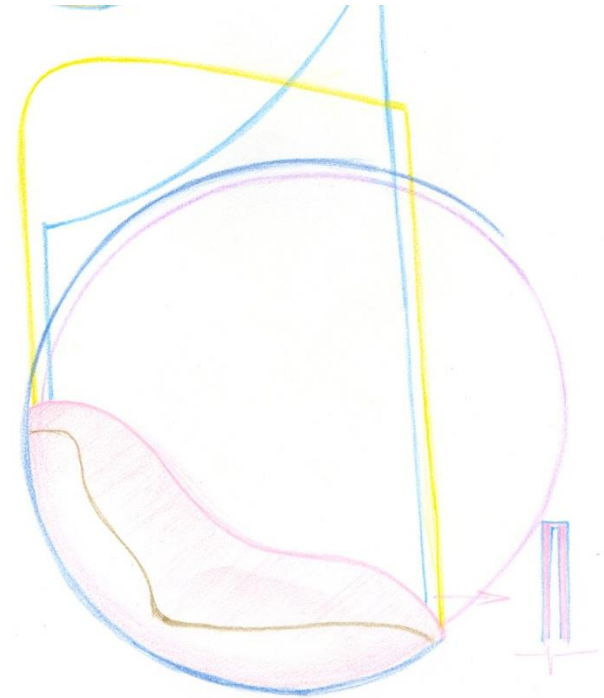
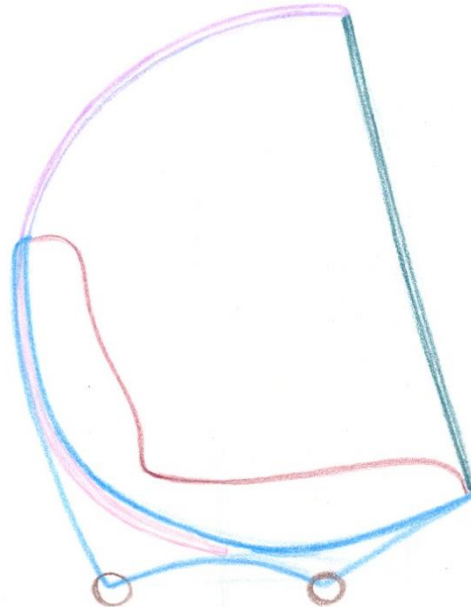
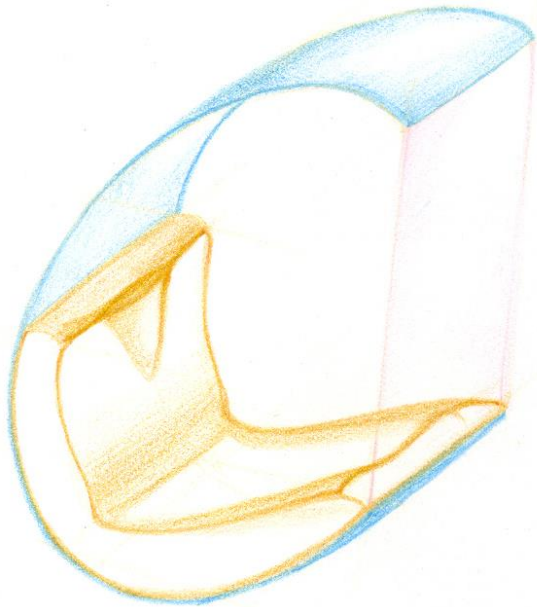
Can be used as table



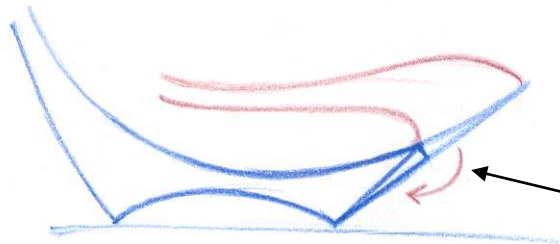
# Exploration – Chair



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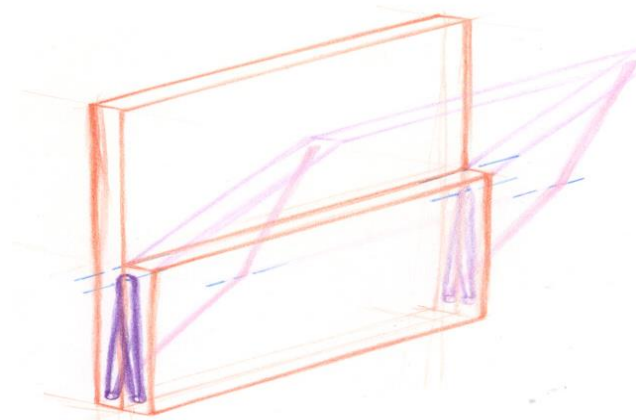
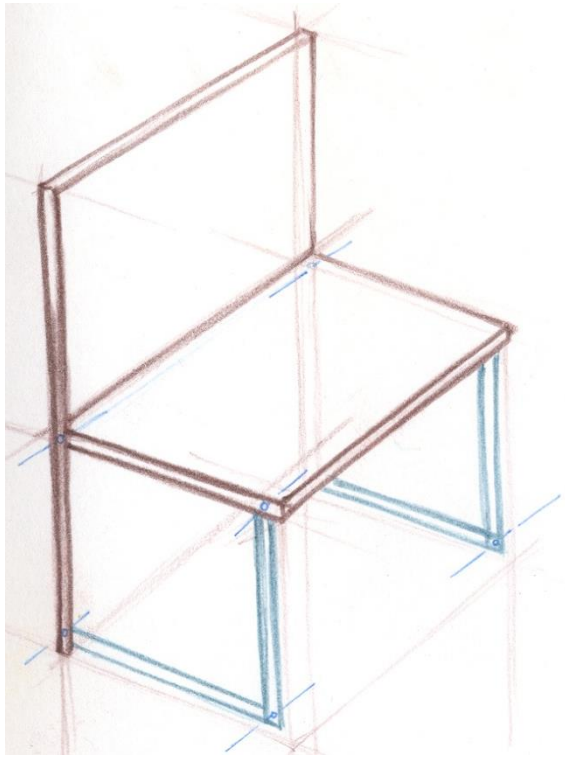


Possibilities of advertisement

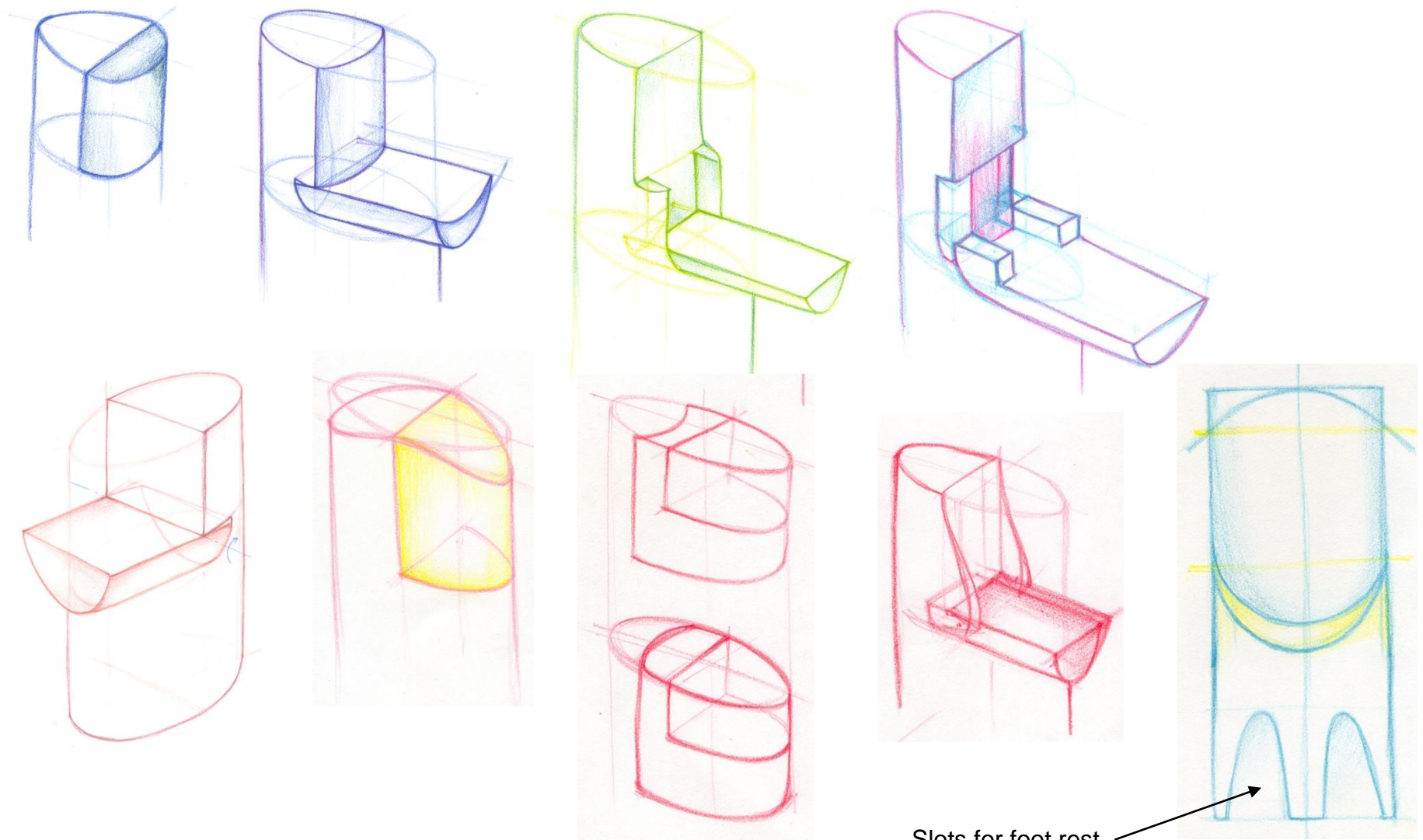


Adjustable lever

# Exploration – Chair

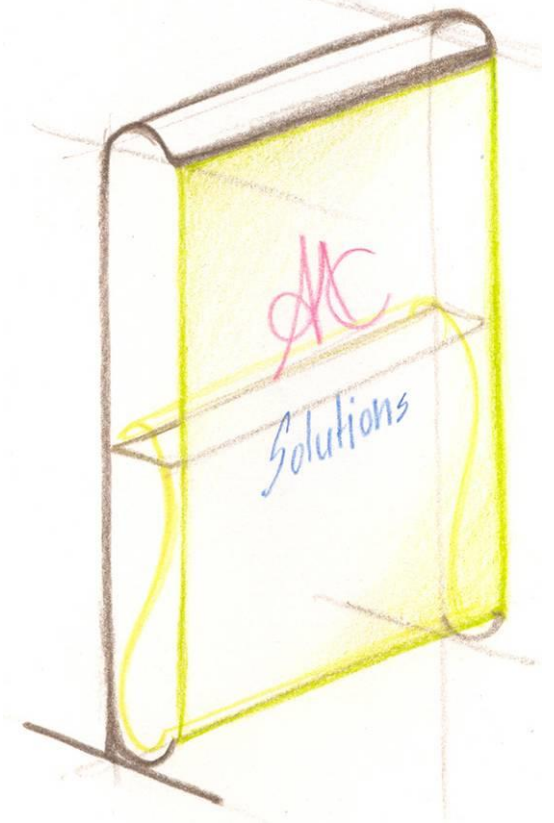
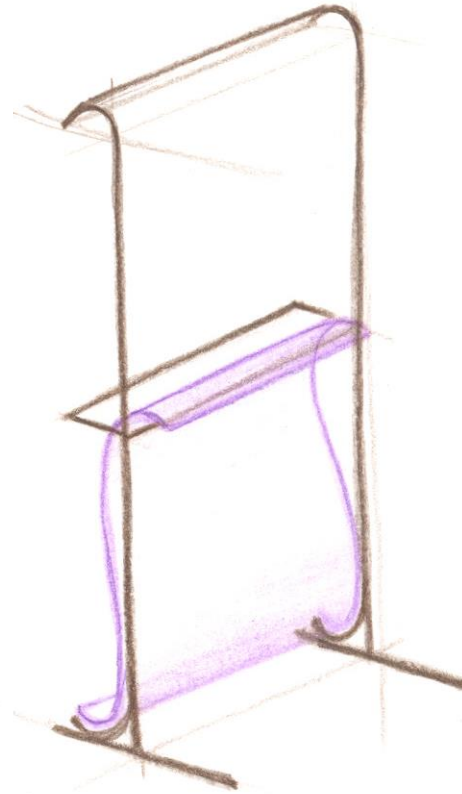
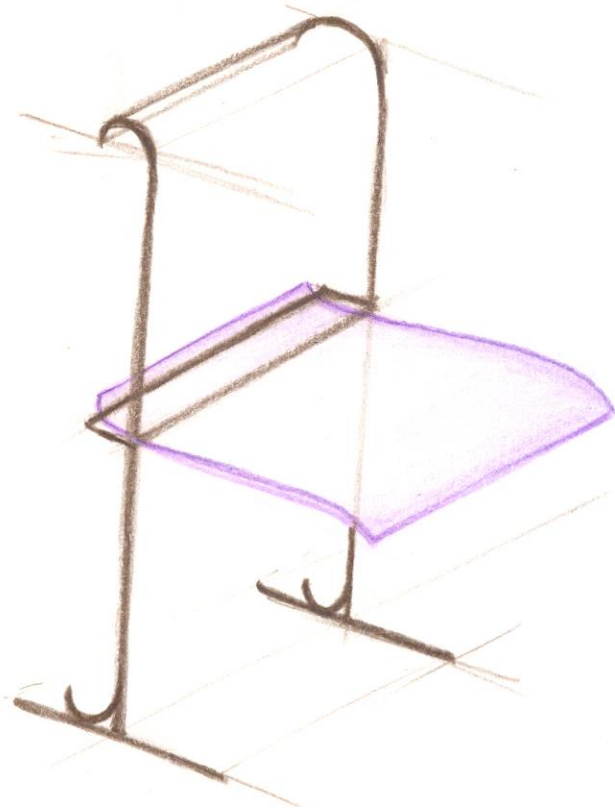


# Exploration – Chair

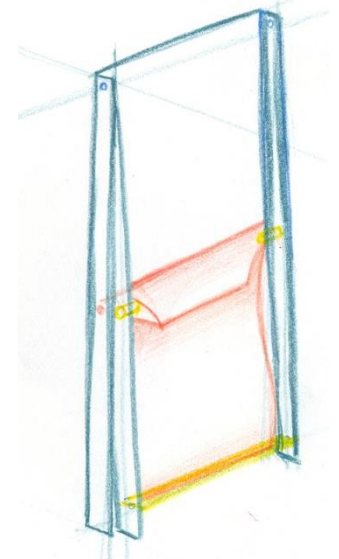
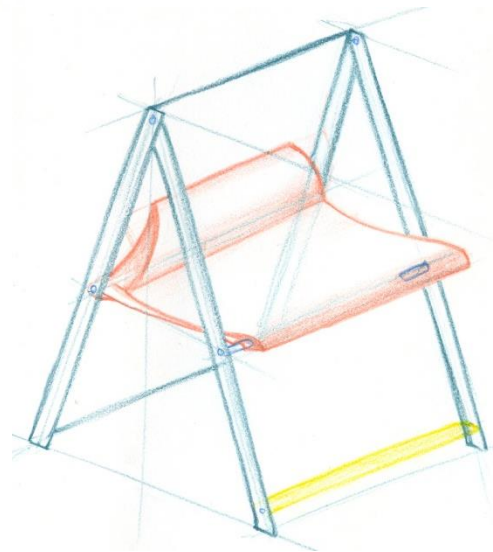
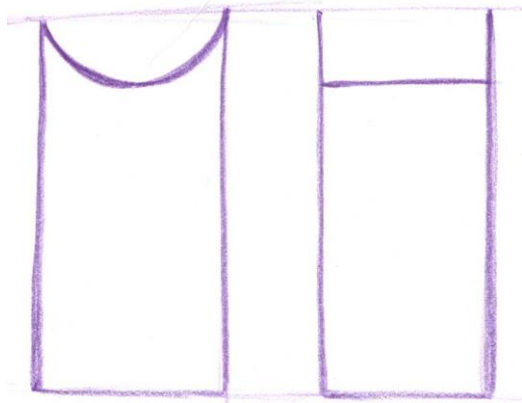
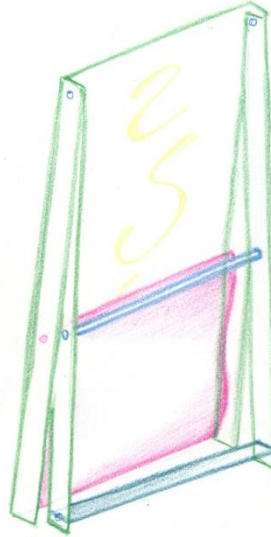
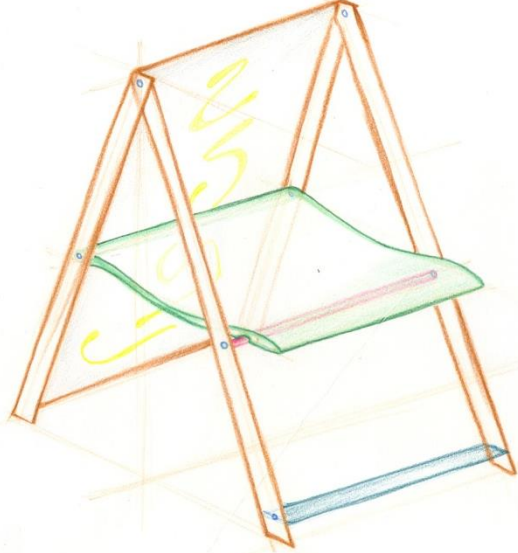


Slots for foot rest

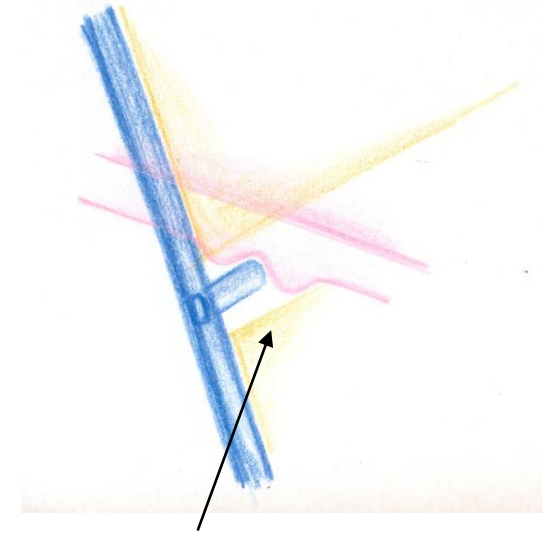
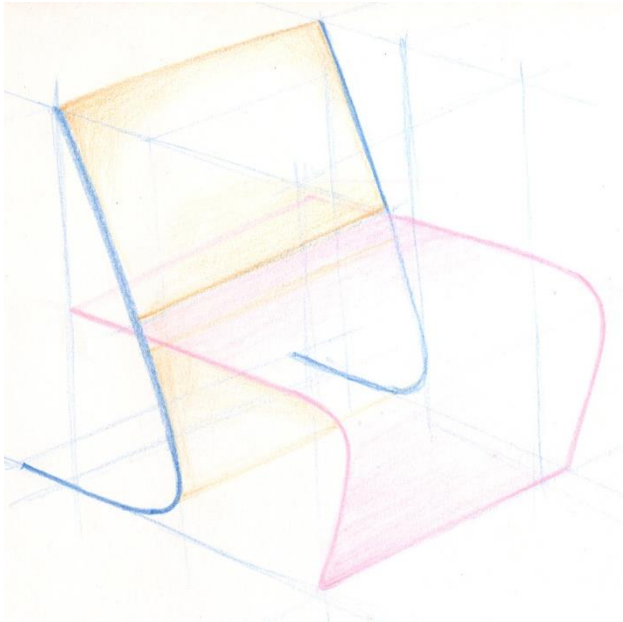
# Concept 1 – Chair



# Concept 2 – Chair

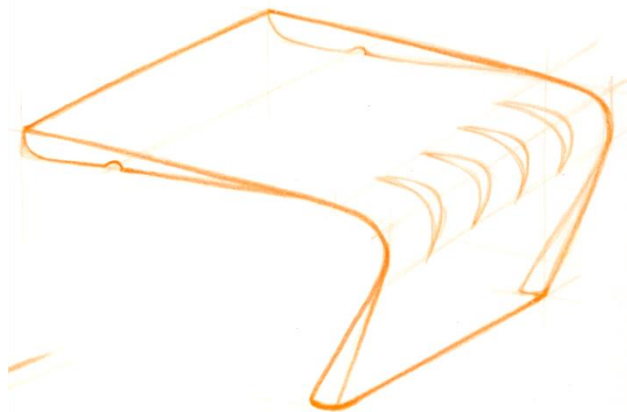
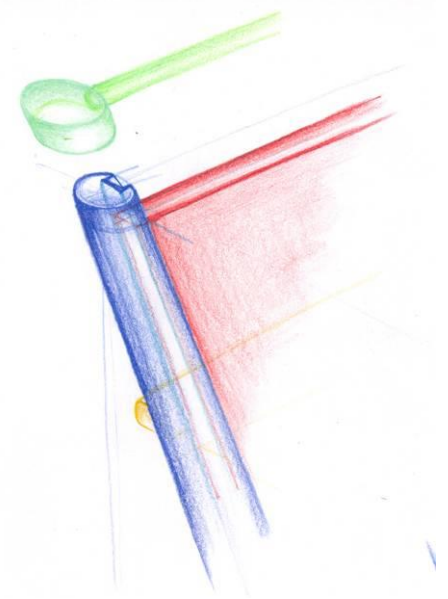
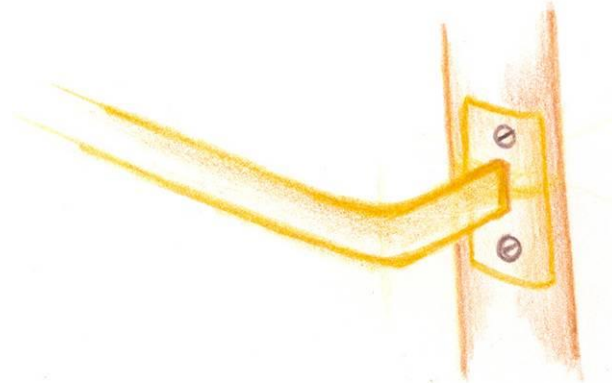
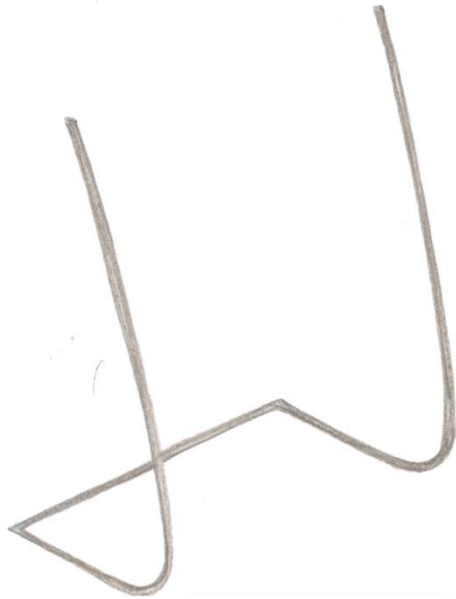


# Concept 3/Final – Chair



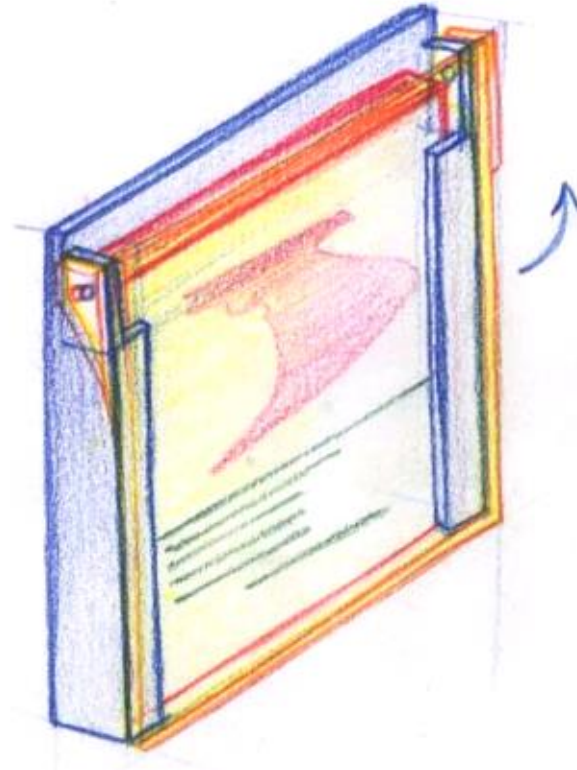
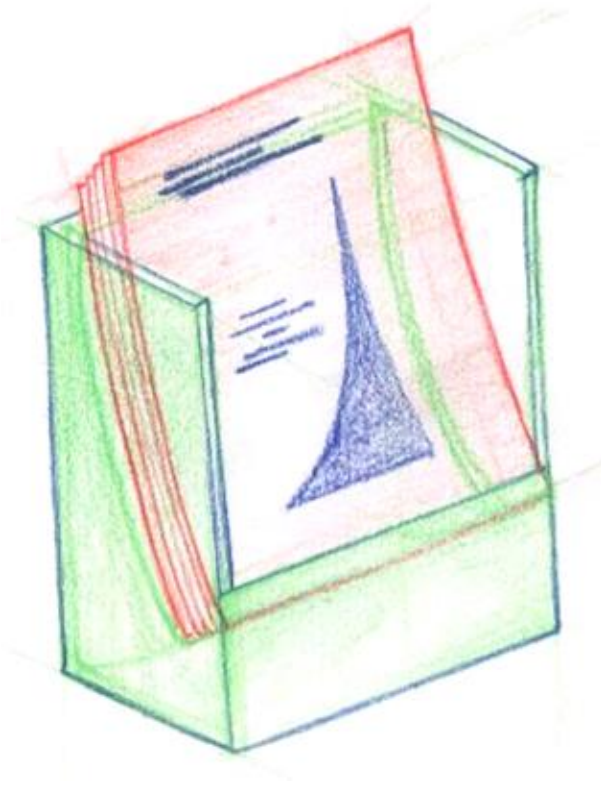
Locking details

# Details – Final Chair

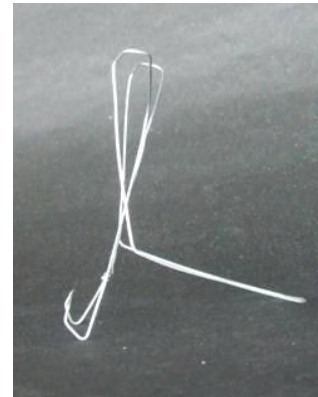
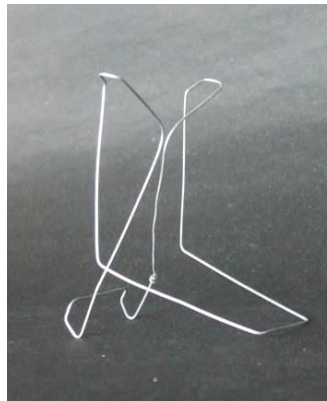
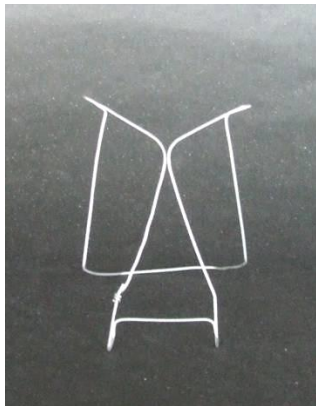
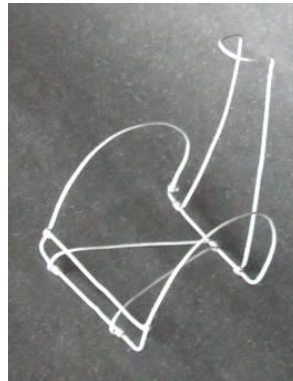
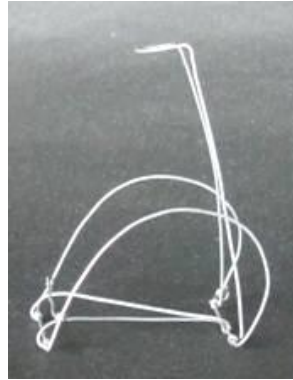
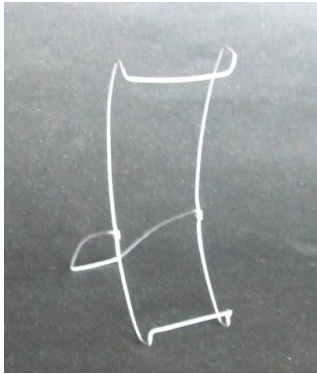


- Generally we use pamphlets
- Most of the pamphlets go waste
- Concept of converting information from pamphlets to small cards
- Interested users may have it
- Can be placed or hanged in offices, hotels, colleges, restaurants etc..

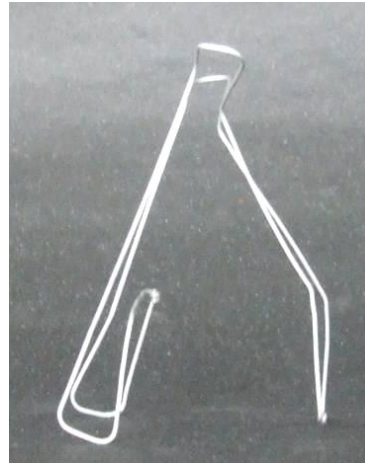
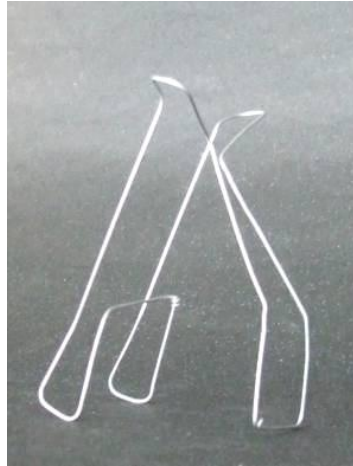
# Ideation - Card stand



# Ideation - Card stand

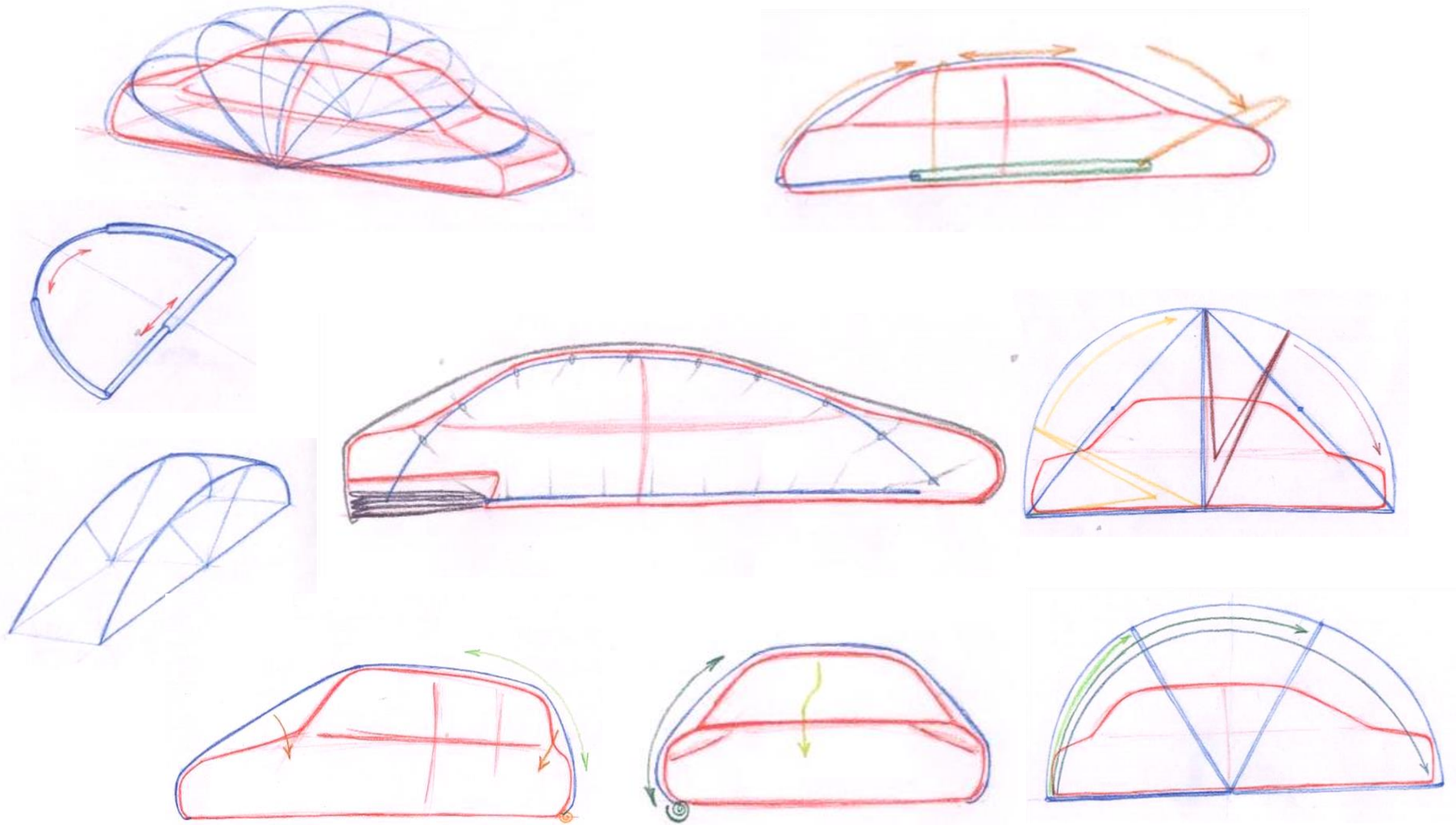


# Final model - Card stand

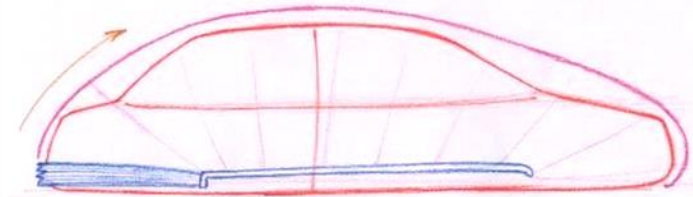
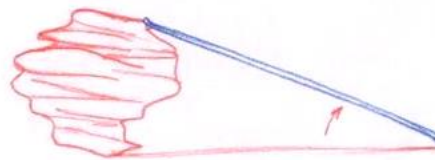
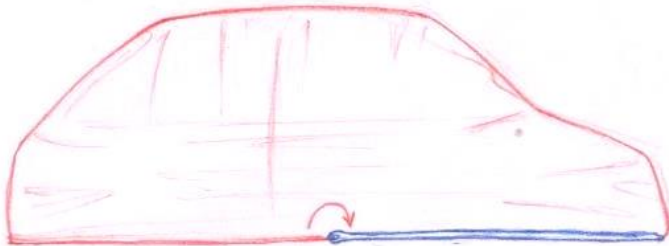
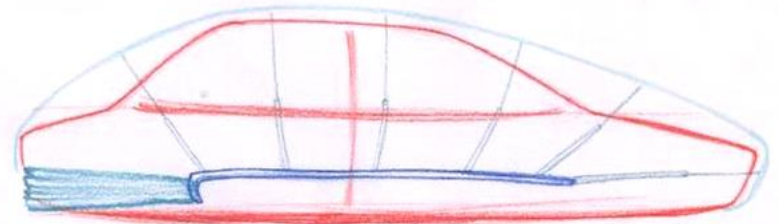
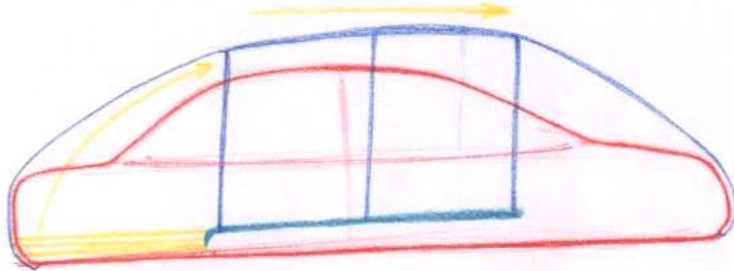
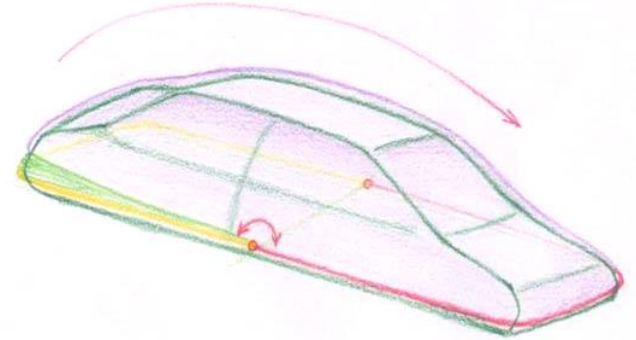
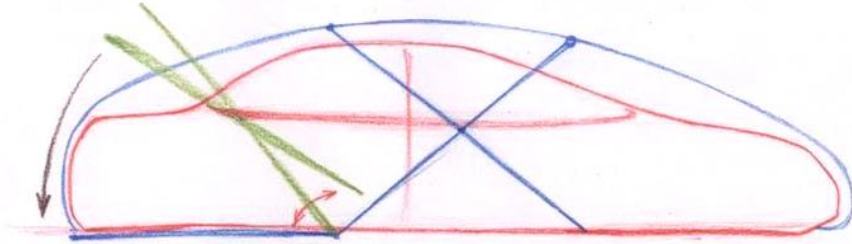


- To protect car from dust and other factors while parking
- Requires more time to cover
- Storage of cover
- Cover mechanism attached to car body
- Easy to cover and uncover
- No problem of storage

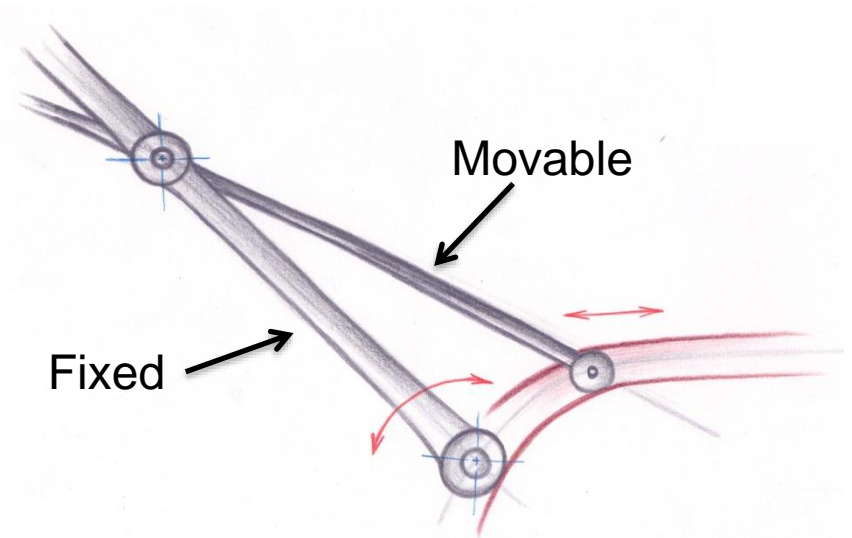
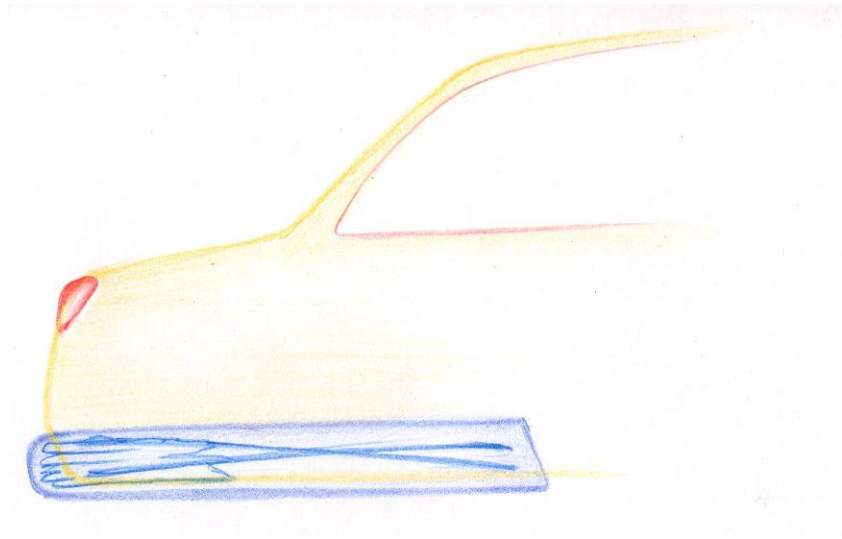
# Ideation – Car cover



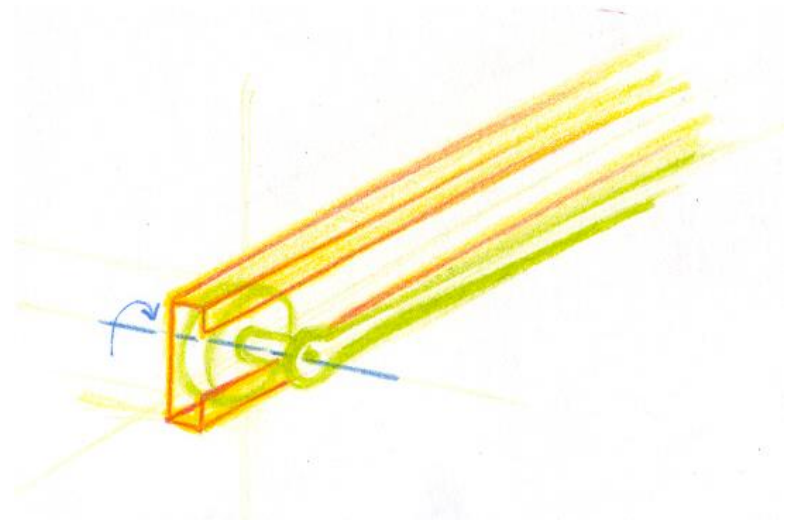
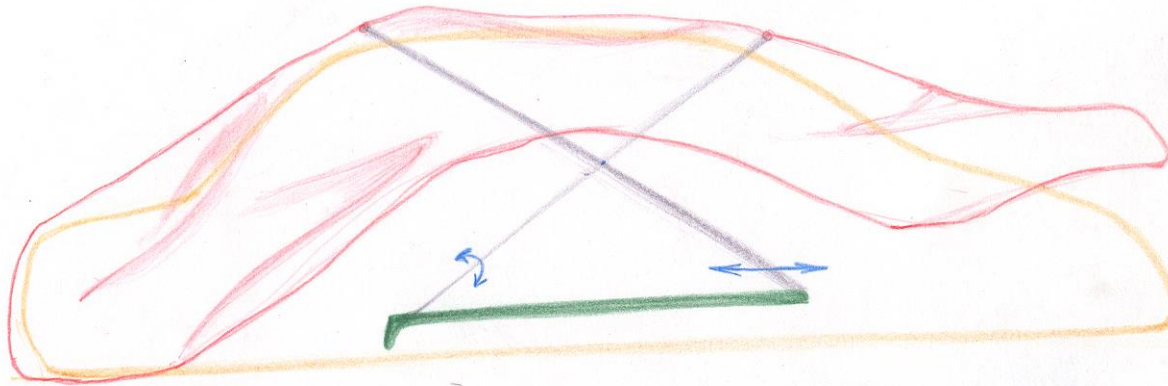
# Ideation – Car cover



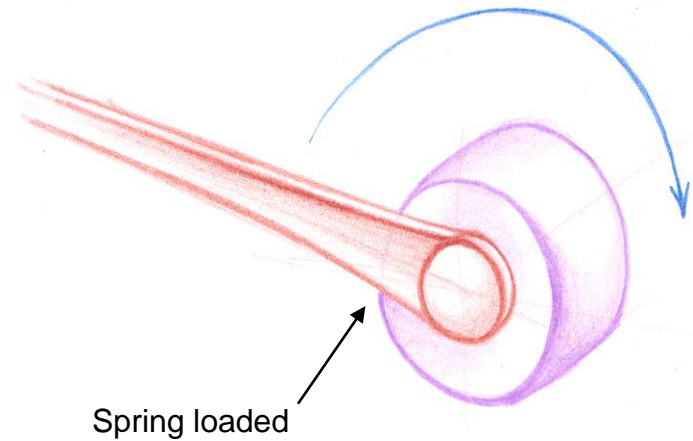
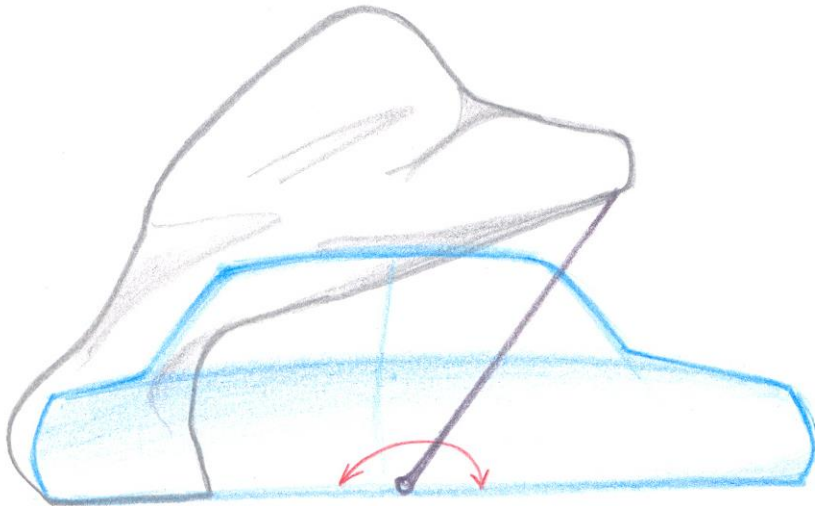
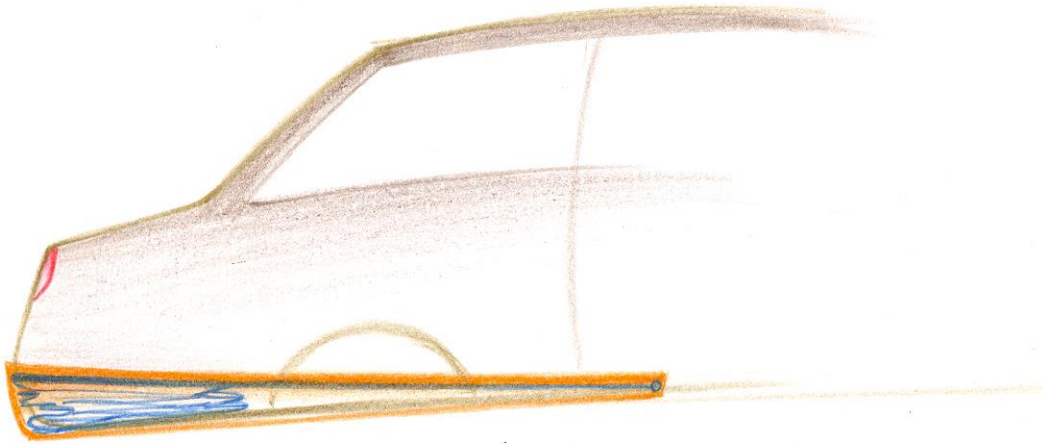
# Concept 1 – Car cover



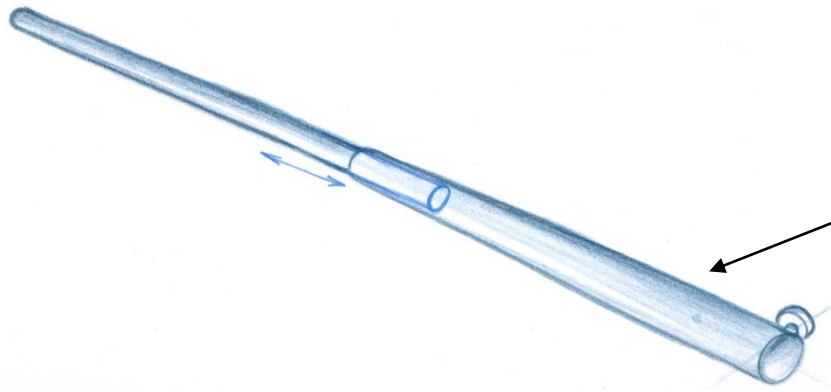
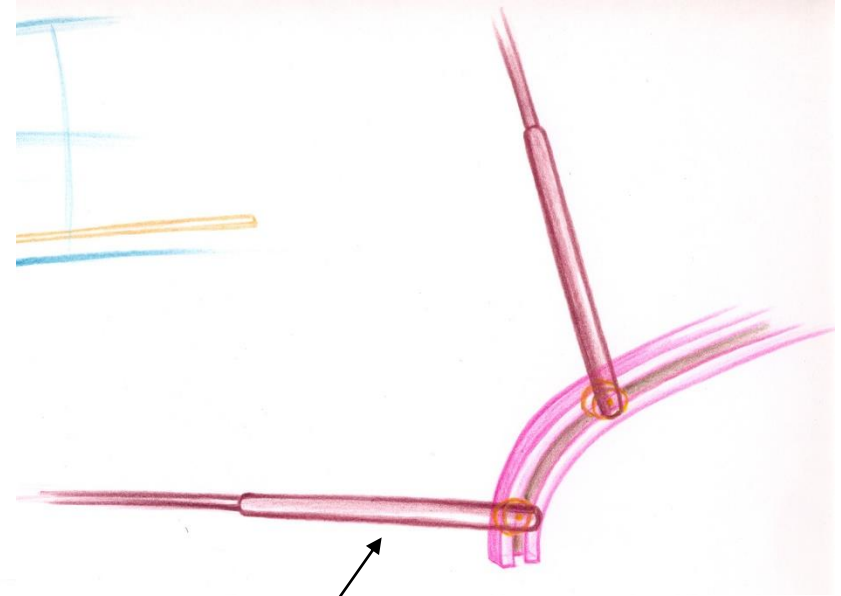
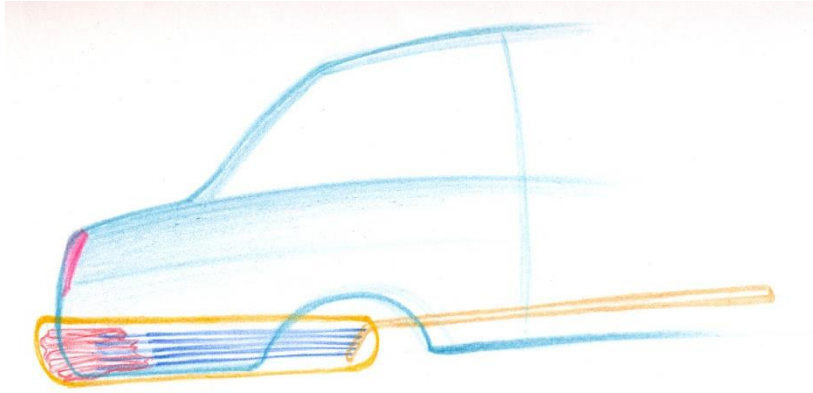
# Concept 2 – Car cover



# Concept 3 – Car cover

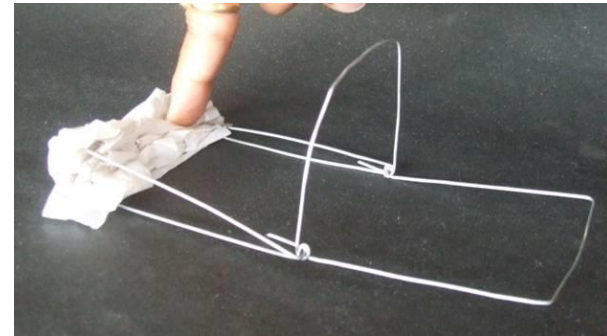
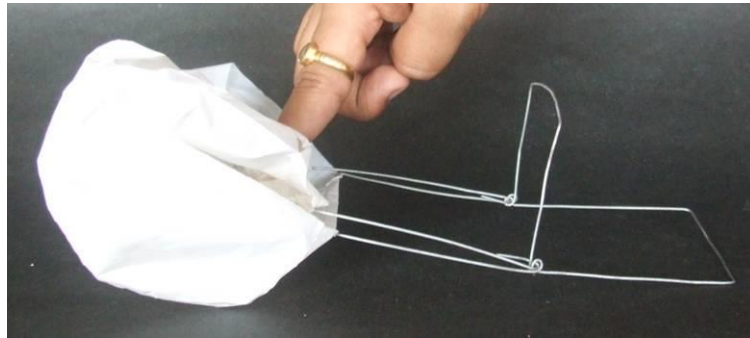
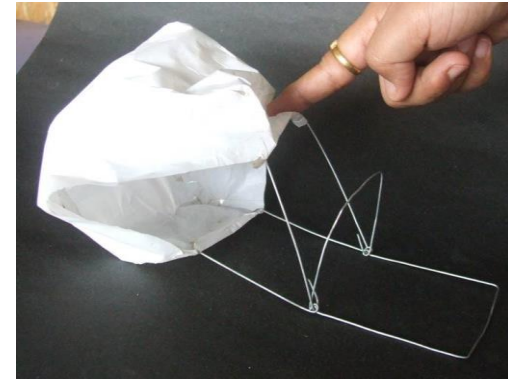
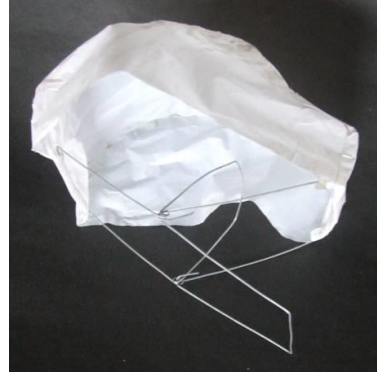
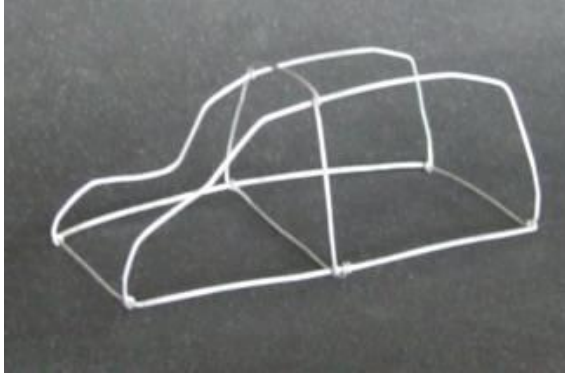


# Concept 4 – Car cover



Telescopic

# Exploration – Car cover



## Course Contents

### PDS BEGINNER COURSE

Duration : 1.5 Months(180 Hours)

Introduction to

- Design & Product Life Cycle.
- Professional Sketching (2D & 3D).
- Modeling & Rendering(MAYA).
- Materials Selection & Properties.
- Motions & Mechanical Components.
- Electrical Components.
- Electronic Components.
- Manufacturing Methods & Feasibility.
- Prototyping (Hands on Training).
- Rapid Prototyping.
- Clay Modeling.
- CAE Tools.
- 25 Plus Assignments.

### PDS EXPERT COURSE

Duration : 3 Months (360 Hours)

- Stage wise Details of Design & Product Life Cycle.
- Professional Sketching (2D & 3D).
- Modeling & Rendering (MAYA).
- 3 D CAD Software. (Pro-E).
- Materials Selection & Properties.
- Motions & Mechanical Components.
- Electrical Components.
- Electronic Components.
- Manufacturing Methods & Feasibility.
- Prototyping (Hands on Training).
- Rapid Prototyping.
- Clay Modeling.
- CAE Tools.
- 50 Plus Assignments + Project Work.

**POP (Plaster Of Paris) Exploration:(3 Hrs)**

**Topology:(3 Hrs)**

**Regular Exercises:(1 Hr)**

**Form study/Transformations:(2 Hrs)**

**Aesthetics:(1 Hr)**

**Expressions:(3 Hrs)**

**Regular Exercises:(1 Hr)**

Ideation (too many ideas),  
Brain storming.

**Mini Project:(3 Hrs)**

**New concept for old purpose:(2 Hrs)**

Exercise to come up with new possible improved solutions over old ones.

**Product detailing:(3 Hrs)**

**Abstractions:(3 Hrs)**

**Ergonomics:(2 Hrs)**

**Semantics:(1 Hr)**

To get the idea how to correlate various elements with various forms.

**Model Making:(3 Hrs)**

To get the understanding, how to reach accuracy, why needed, methods, materials.

**Futuristic Imagination:(2 Hrs)**

Every idea has the potential, the only thing is to execute it properly.

Requirement satisfaction or problem solution should be the primary aim.

Have to deliver the best in given time.

Should give value to other persons ideas.

Have to work with constraints, still with better design

Thank You