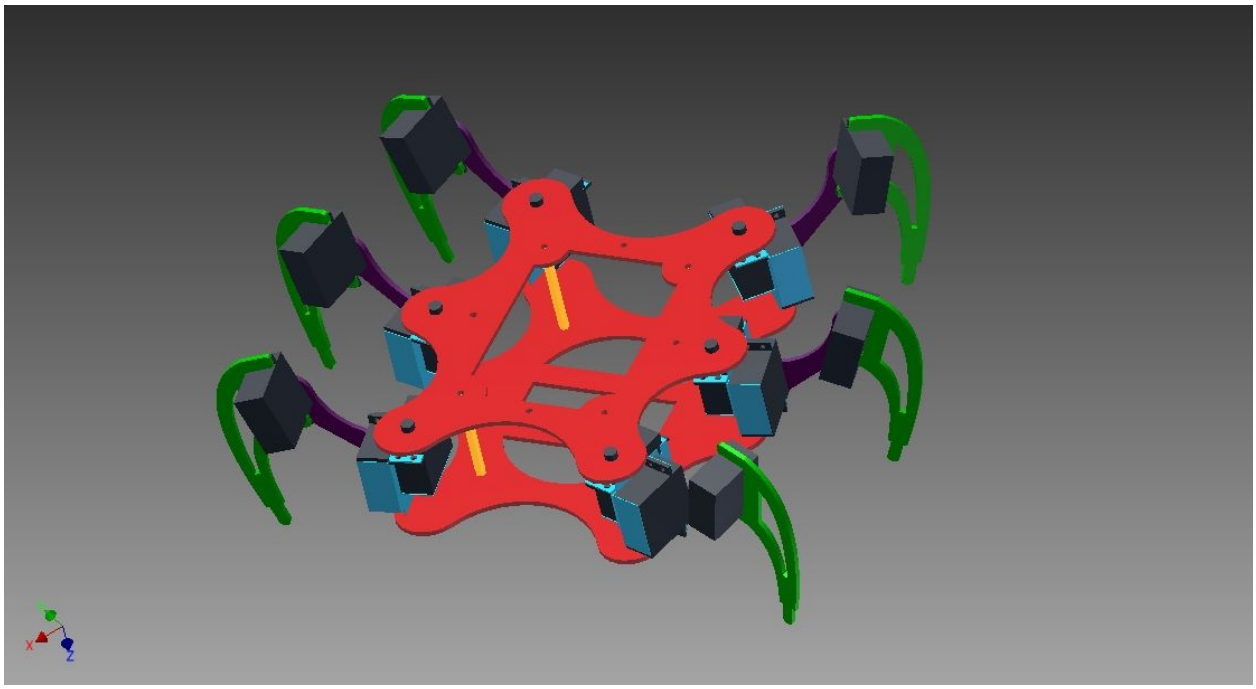
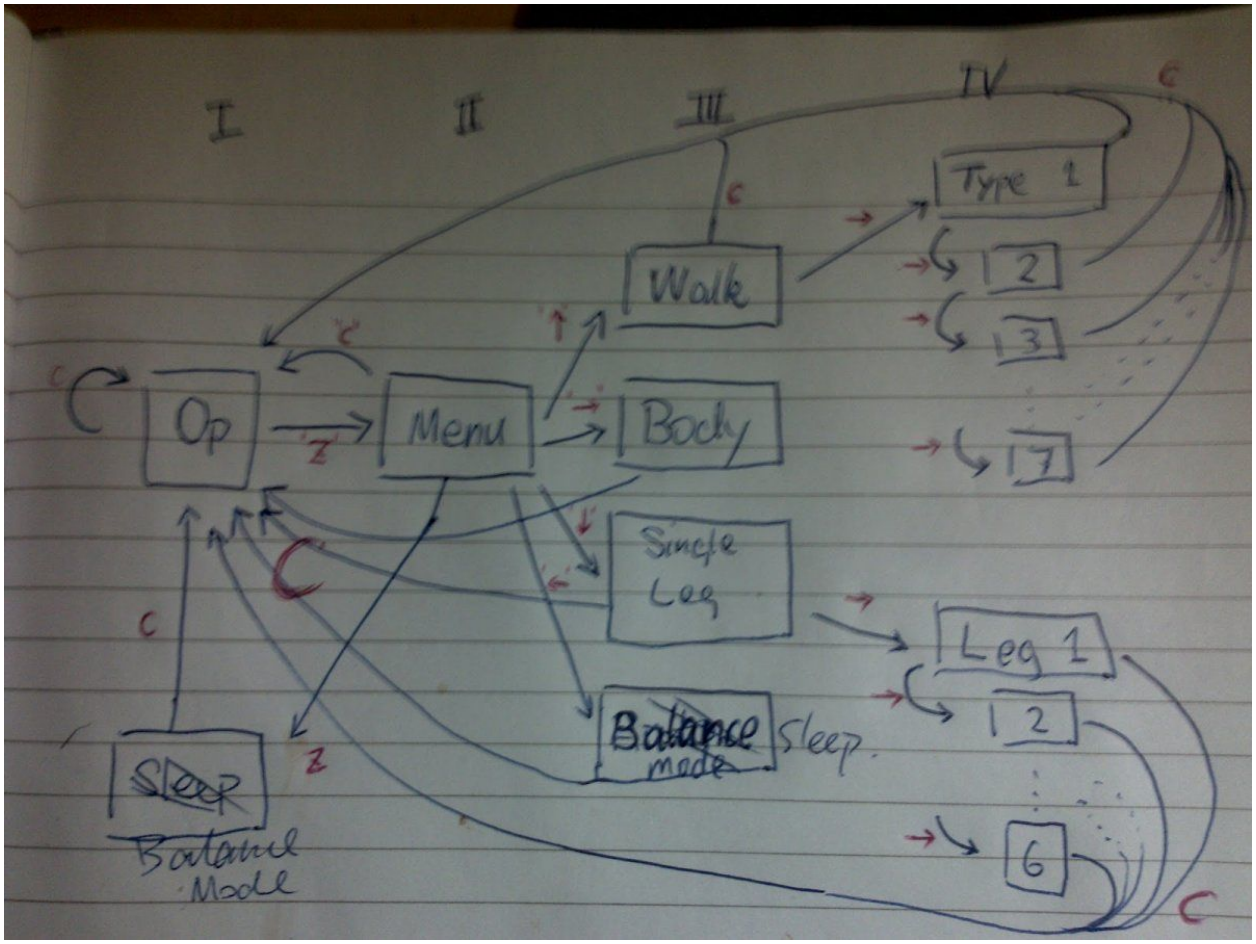
TEAM NAME: LAST BENCHERS

PROJECT NAME: HEXAPOD

TEAM MEMBERS:

1.PIYUSH GEDIYA
2. D.SARASWATHI
3. ARJUN BIRUA





BROAD VISION:

Such bots of larger size can be used for unmanned exploration purposes.

MOTIVATION:

Our idea is to make a 6 wheeled remote controlled hexabot (all terrain) using rocker bogie mechanism. We desire to design a bot on our own..We will get an opportunity to improve our software proficiency as we willuse Matlab Solidworks etc.

DEMONSTRATION:

Our bot will be able to traverse various terrains and cross obstacles of height 1 feet.

COMPONENTS REQUIRED :

Motors (20-50 rpm) (6)
5 mm aluminium plates
stainless steel plates/blocks

ball bearings
L-clamps
Lock nuts
allen bolt
differential steering
circuit board
wheels
Batteries

SKILLS:
We will learn softwares such as Matlab, Solidworks. We will improve our mechanical skills .
Workshop requirement : solidworks ,matlab
Estimated cost : Rs 8000-9000

TIMELINE:
Day 1-10 –Designing and improving software proficiency .
Day 11-18–arranging materials
Day 19-23 – mechanical construction
Day 24-26 –circuit integration
test drive 1
1 week- design change and improvement
1 week – 2nd Iteration