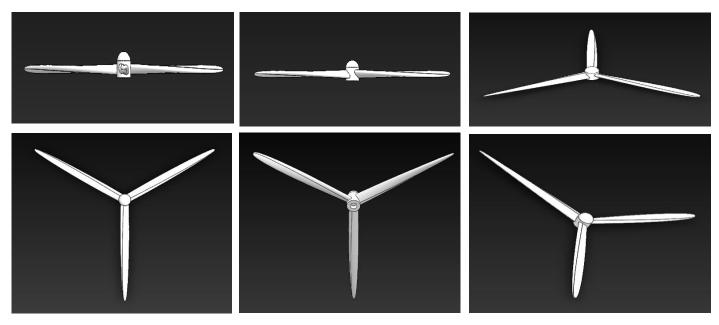
ASSIGNMENT 1

Q1. Make CAD for a board games dice of side length 15mm and dot diameter 3mm. Assign proper Material and Appearances. Generate a drawing file with all its faces visible with proper dimensioning.



Q2. Make the CAD model of a 3-wing propeller with outer diameter of 40cm, hub diameter 10mm, hub length 15mm, shaft diameter 6mm, and shaft depth of 10mm. Assign material as ABS Plastic.



Q3. Make the CAD model of a DC motors as per the specification given in the link. Assign relevant materials to the components.

http://www.nex-robotics.com/products/motors-and-accessories/dc-motors/300-rpm-side-shaft-37mm-diameter-high-performance-dc-gear-motor.html

Q4. Replicate the CAD model for the roller bearing from the video.

https://www.youtube.com/watch?v=iLm3v4lc16k

Q5. Import a Rack and a Pinion from the SolidWorks tool box (ANSI Metric) and make a rack and pinion joint between them. Use all the default values for the gear teeth for both rack and pinion.

Note: Save all your files in the Grab-CAD folder Assigned to You.