We were supposed to make the model of a car with dimensions as 4 inch, 4 inch and 8 inch. The car had to be hollow from inside for space to put materials.

First of all, I designed the side view of the car. It was extended to a length of 4 inch. Then I used the shell to make the whole structure hollow with an offset of 0.1 inch. And I made 4 windows using extrusion. Then I made chassis with a length of 8 inch and a breadth of 4 inch. Then I made an offset of 0.1 inch in the chassis and made an extruded base. Then I used the extruded cut option to get the space for axle as shown in part.

Axle with a diameter of 0.5 inch with a length of 4.8 inch with 4 inch of main axle and 0.5 inch of outer diameter with outer ends and inner diameter of 0.4 inch.

Wheel with an outer diameter of 1.5 inch and inner diameter of 0.4 inch. It has 7 extruded cuts on it in the shape of a triangle. The width of wheels is 0.4 inch.

Now in main assembly we have to combine all the 4 parts using mates. We first join the car frame with the chassis then we will mate axle with the holes in the car frame and then we will join axle and wheel. Now then we use the colour menu and colour the wheels and the car frame with the different colours.

**SHREYANSH SHANDILYA**

**Indian Institute Of Technology (ISM) Dhanbad**