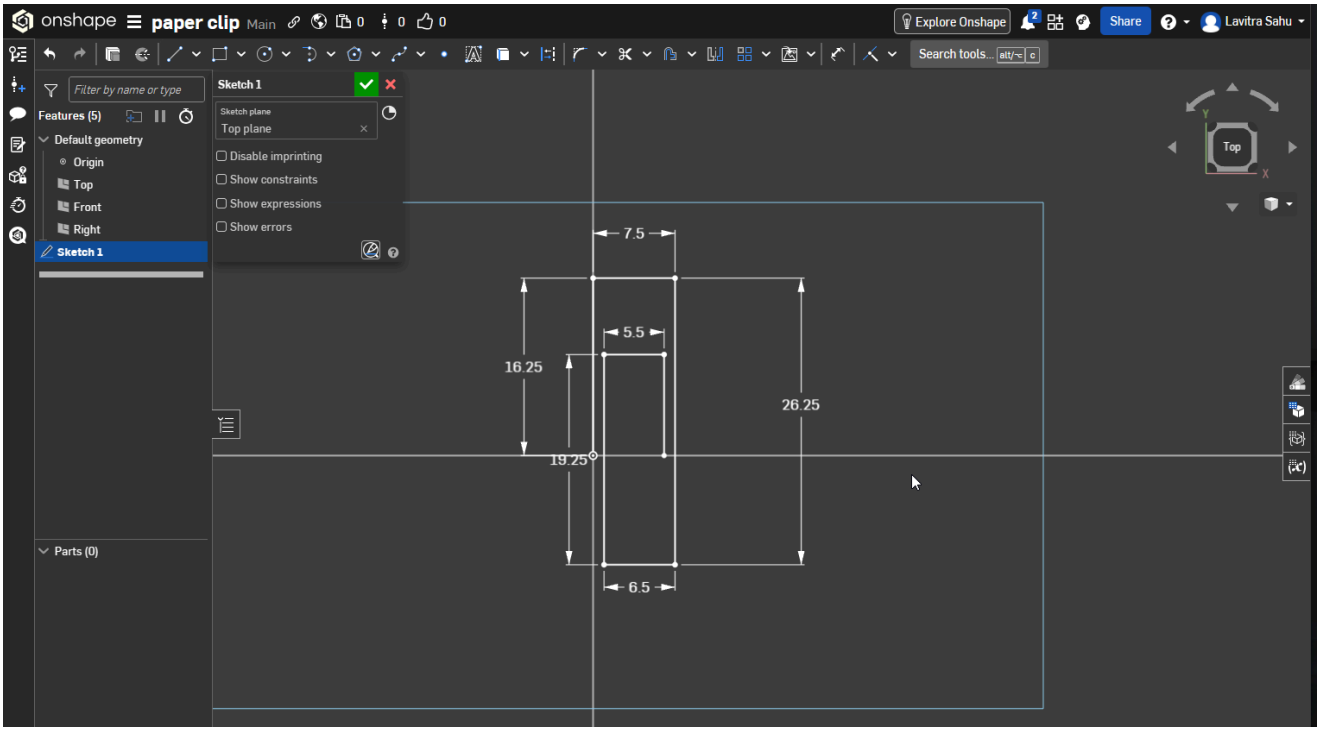
Designing a Paper Clip in Onshape (Sketch + Sweep Workflow)

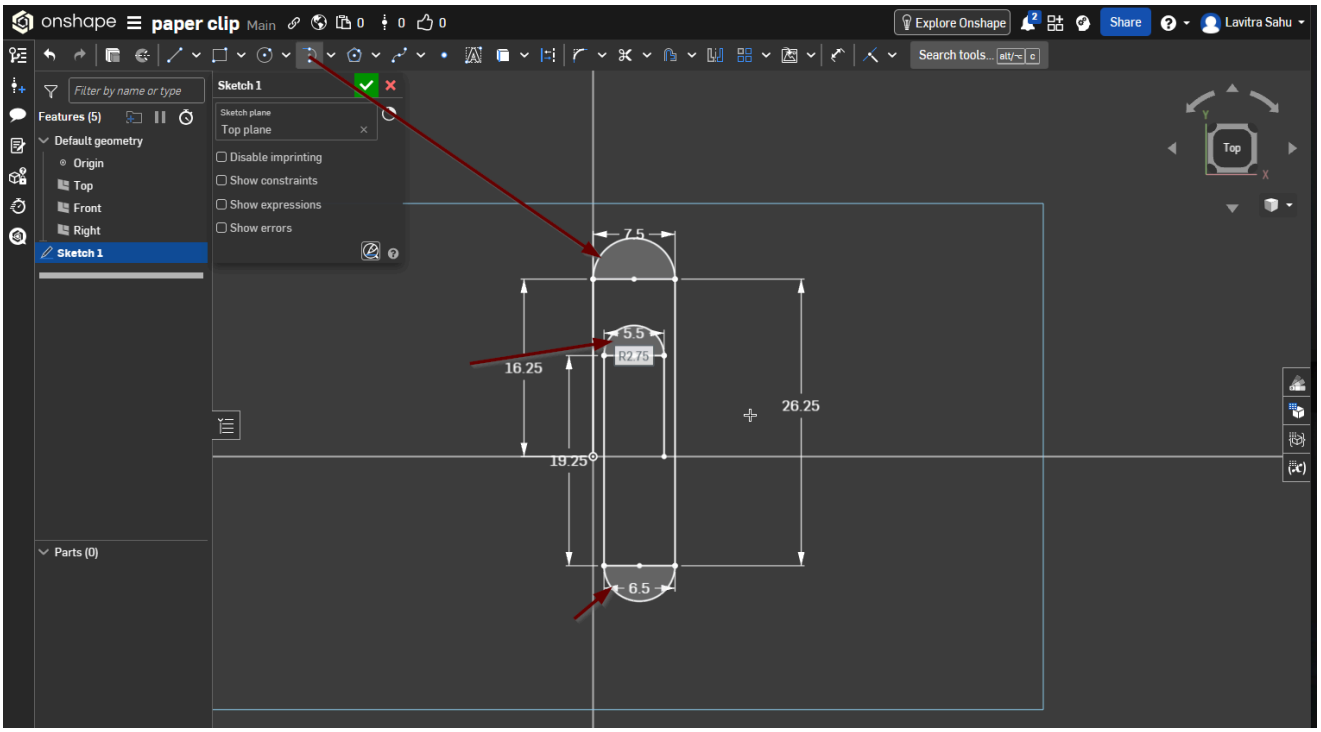
In this section, we will design a **paper clip** using basic sketching and the **Sweep** tool in Onshape.

Step 1: Create Sketch on Top Plane



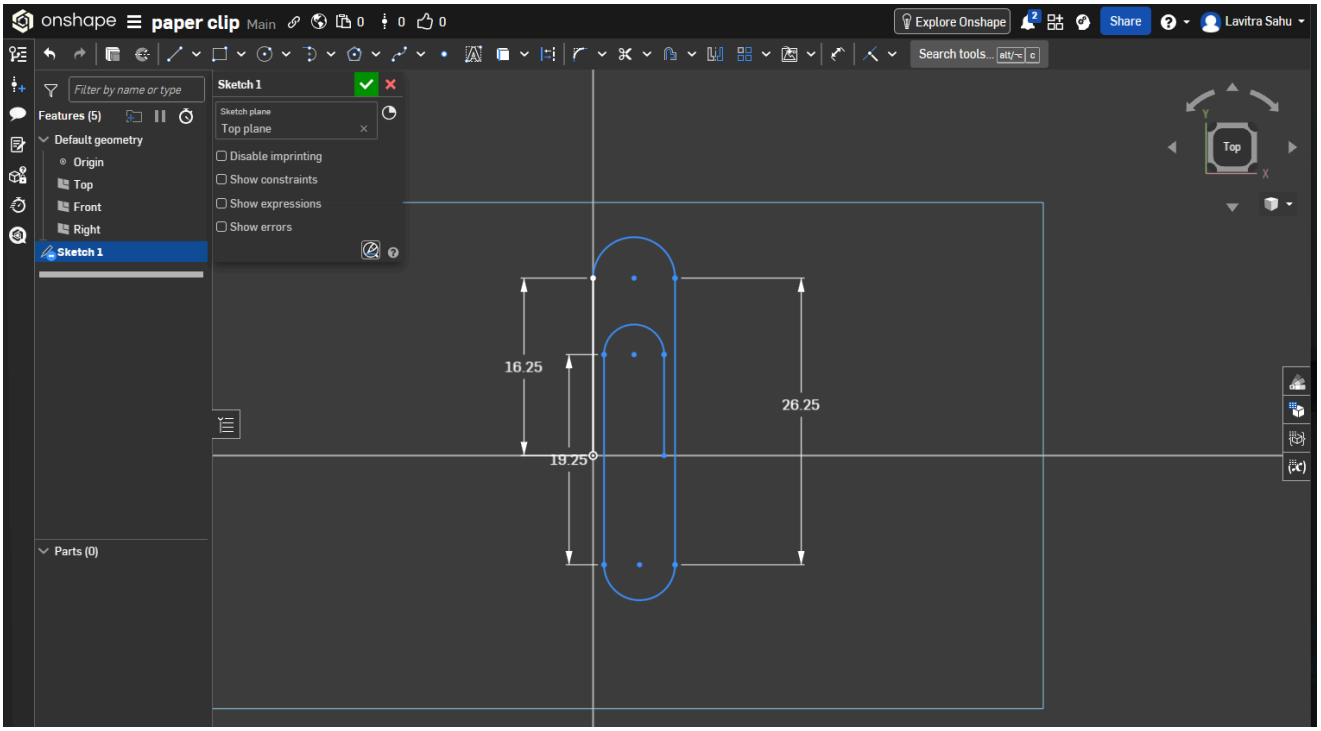
- Select the **Top Plane**
- Click on **Create Sketch**
- Using the **Line Tool**, draw the paper clip shape with **exact measurements**

Step 2: Add Tangent Arc



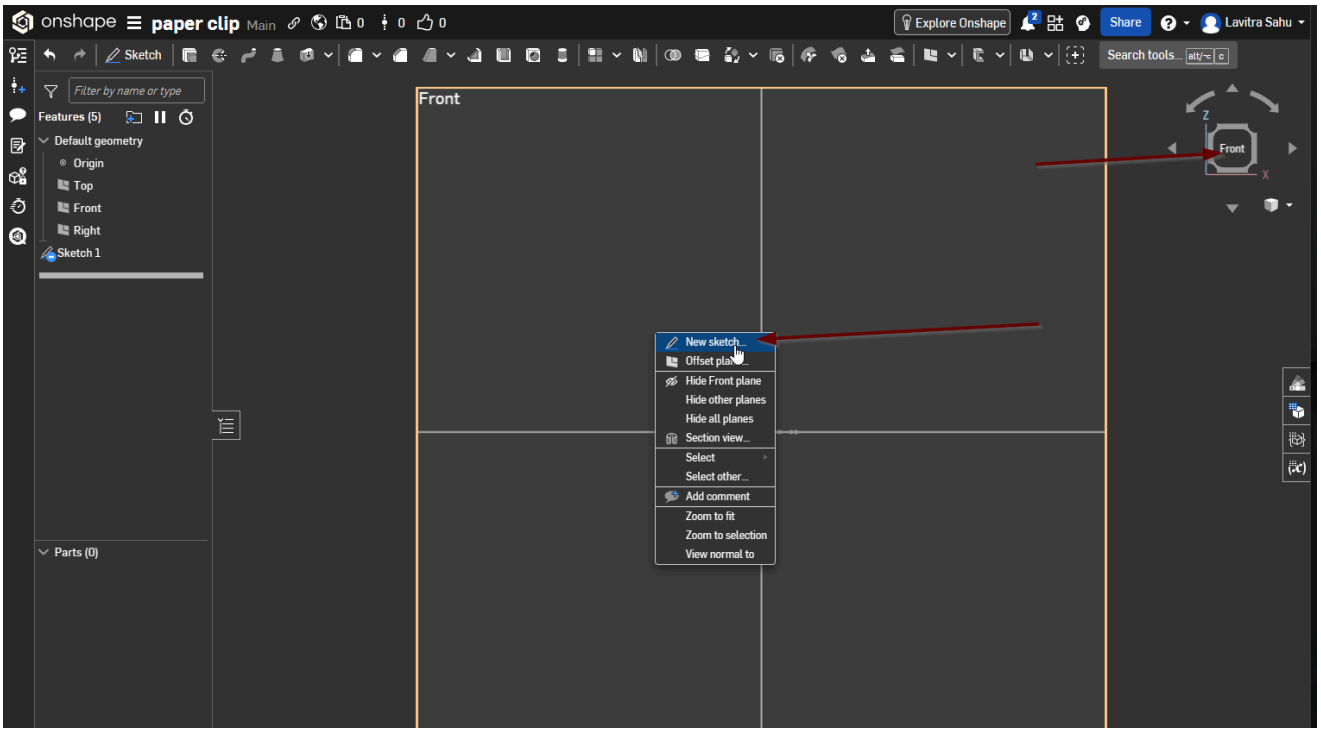
Use the **Tangent Arc** tool to draw the curved portion of the paper clip, maintaining tangency with the straight lines.

Step 3: Delete Extra Lines



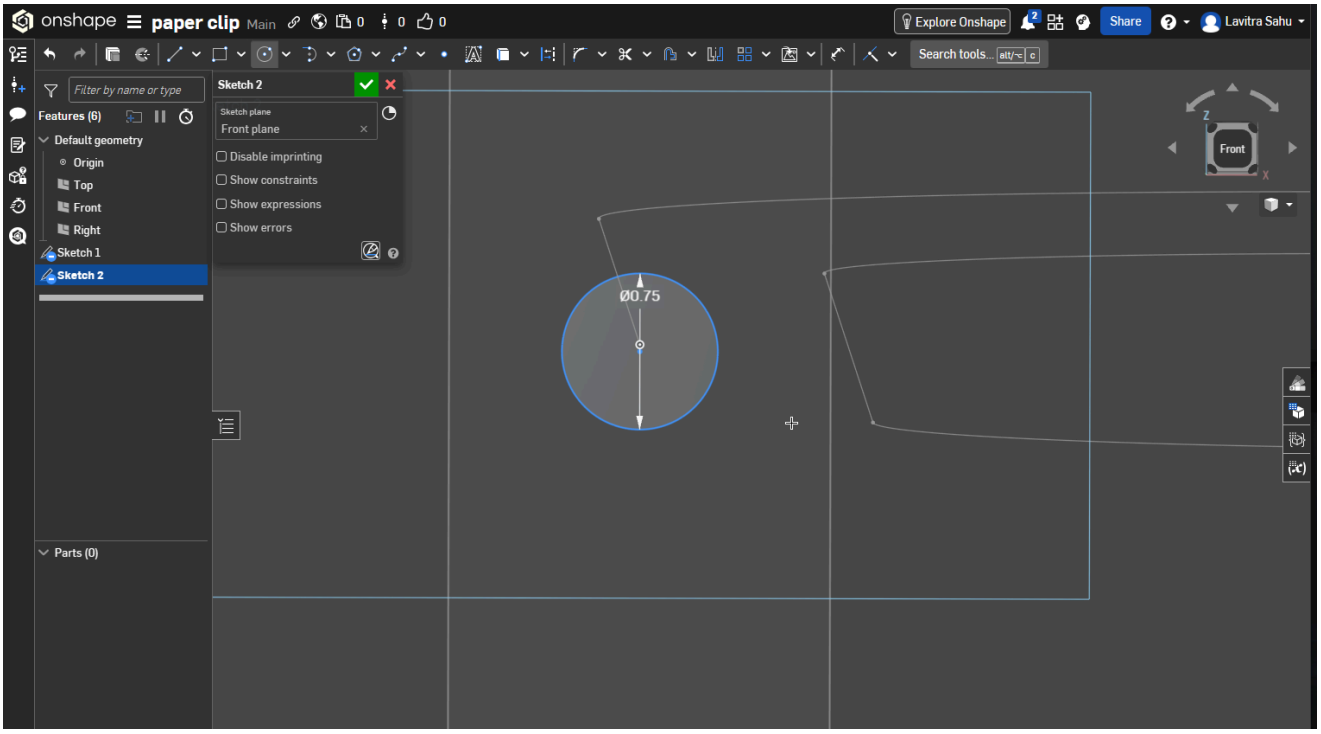
Delete the unnecessary straight lines so that only the **continuous paper clip path** remains.

Step 4: Create New Sketch on Front Face



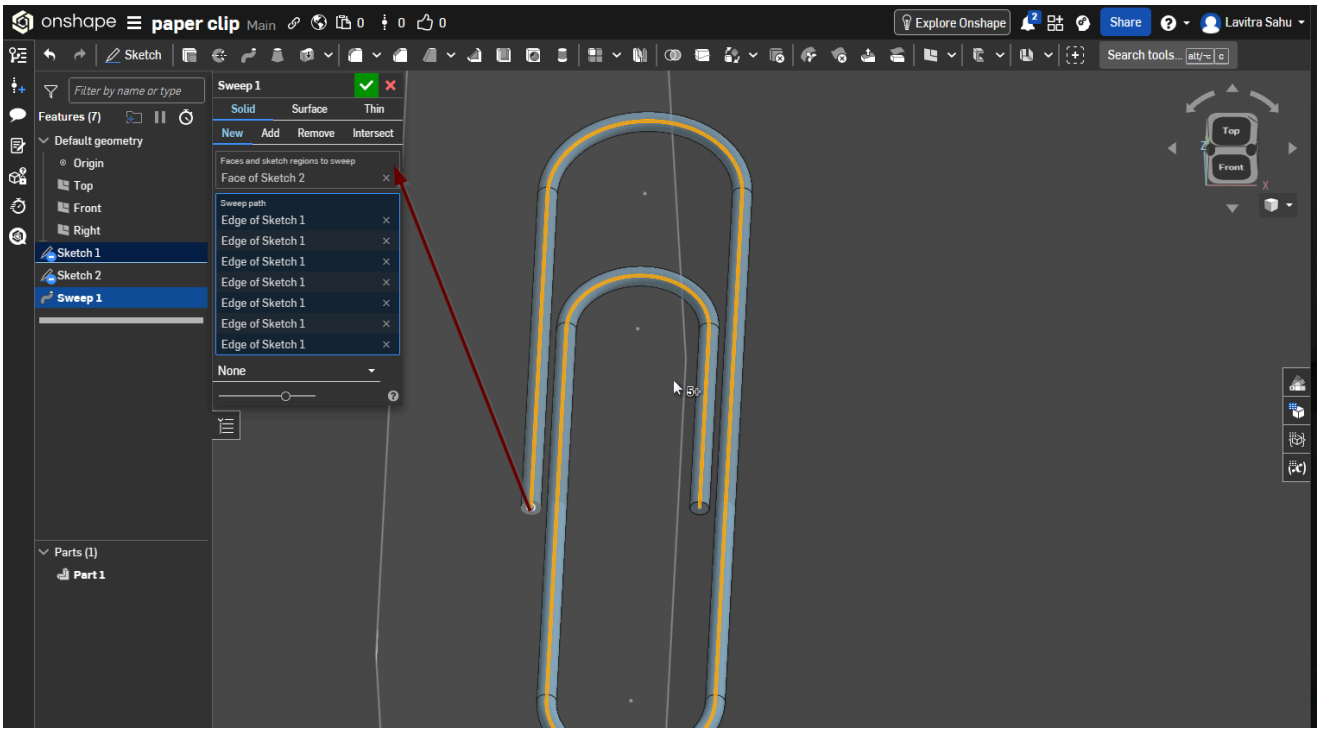
- Select the **Front Face**
- Click on **Create Sketch**

Step 5: Draw Profile Circle



Create a **circle** with a diameter of **0.75 mm**.
This circle will act as the **cross-section** of the paper clip wire.

Step 6: Sweep the Profile



- Go to the **Sweep** tool
- Select the **circle face** as the sweep profile
- Click on **Sweep Path**
- Select **all the lines of the paper clip sketch** as the path
- Confirm the operation

Done

You have successfully created a **paper clip** using:

- Line and Tangent Arc sketching
- Profile sketch
- Sweep operation in Onshape