ROBOTIC ARM WITH MACHINE LEARNING CAPABILITIES

AIM:

Our goal is to create an robotic arm that identifies and takes the specified object to the user.

**WORKING** :

1. First the RAMLC learns the object with the help of user by showing it to the camera.

2. Then the RAMLC saves the users face who gave request to find the object

3. RAMLC searchs the room for the object

4. RAMLC picks the object and takes it back to user who gave the request

If there are same objects in multiple color and shape, the robot picks the exact same object shown by the requested user. The user has to the recoginition process only once , the face and object will be saved in its memory for future reference.

The RAMLC only picks the object within its vision, so there wont be any advanced searching method (as it its not already).

The size of the RAMLC is not confirmed as it will be according to our budget.