**Catchment Area Delineation**

1. Open ArcMap
2. First ensure the extension are activated. Go to Customize > Extensions. Then check all the extensions.
3. Also ensure the background processing is disable. Go to Geoprocessing > Geoprocessing Options > Then Uncheck Background Processing.
4. Set the coordinate system as **WGS 1984 UTM Zone 45N** by going into View > Data Frame Properties > Coordinate System
5. Add the Digital Elevation Model (DEM) ***N26E086.hgt*** in ArcMap
6. Add ***dam\_location*** shapefile
7. Now use the following series of tools which can be accessed at ArcToolBox > Spatial Analyst Tools > Hydrology
   1. Fill – Fill the sinks in DEM
   2. Flow Direction – Compute flow direction raster
   3. Flow Accumulation – Compute the flow accumulation raster
   4. Change symbology of raster obtained after Flow Accumulation to visualize the streams clearly
   5. Watershed – Delineate the catchment area raster
   6. Raster to Polygon – Convert raster catchment area to polygon
   7. Compute the area of the watershed polygon