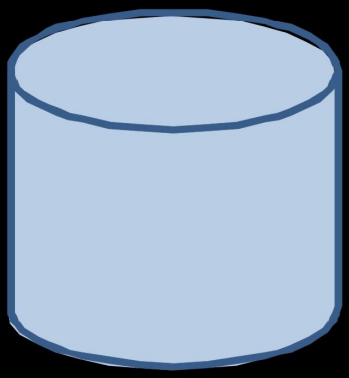
Arcgis Tutorials

Geodatabase



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96653909982

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Geodatabase In ArcGIS

The geodatabase is a collection of geographic datasets of various types.

In this topic, The geodatabase is a "container" used to hold a collection of datasets.

you can learn about the fundamentals of the geodatabase. These concepts will help provide a foundation for learning about and effectively using geodatabases for your GIS work.

Fundamental datasets in the geodatabase

A key geodatabase concept is the dataset. It is the primary mechanism used to organize and use geographic information in ArcGIS. The geodatabase contains three primary dataset types:

- Feature classes
- Raster datasets
- Tables

Creating a collection of these dataset types is the first step in designing and building a geodatabase. Users typically start by building a number of these fundamental dataset types. Then they add to or extend their geodatabases with more advanced capabilities (such as by adding topologies, networks, or subtypes) to model GIS behavior, maintain data integrity, and work with an important set of spatial relationships.

Types of Geodatabases

. There are three types:

1. **File Geodatabases**: **(.gdb)**

   Stored as folders in a file system. Each dataset is held as a file that can scale up to 1 TB in size. The file geodatabase is recommended over personal geodatabases.

2. **Personal Geodatabases (.mdb)**

   All datasets are stored within a Microsoft Access data file, which is limited in size to 2 GB.

3. **ArcSDE Geodatabases:(Spatial Database Engine)**

   Stored in a relational database using Oracle, Microsoft SQL Server, IBM DB2, IBM Informix, or PostgreSQL. These multiuser geodatabases require the use of ArcSDE and can be unlimited in size and numbers of users.

Comparing the three types of geodatabases

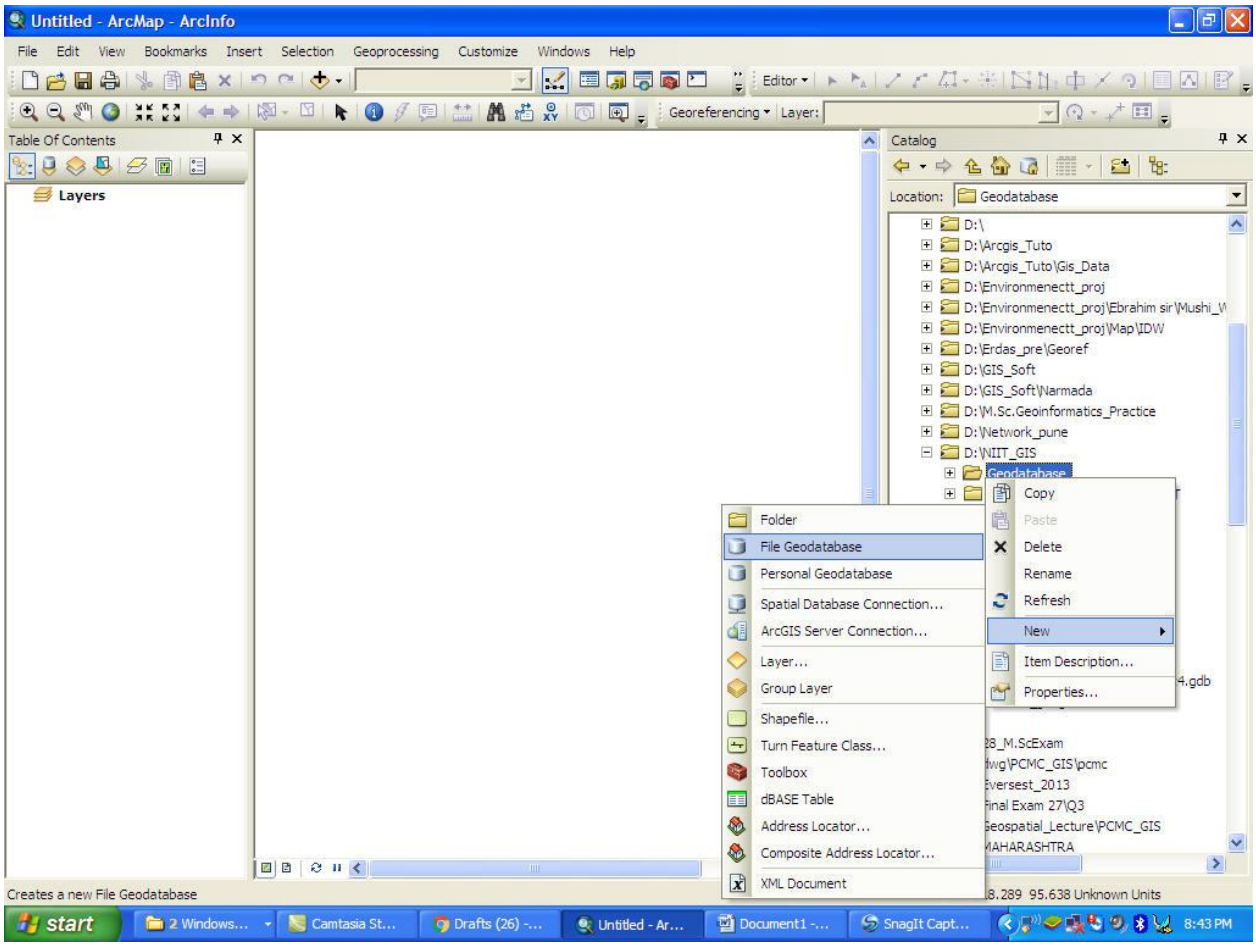
Key characteristics	ArcSDE geodatabase	File geodatabase	Personal geodatabase
Description	A collection of various types of GIS datasets held as tables in a relational database (This is the recommended native data format for ArcGIS stored and managed in	A collection of various types of GIS datasets held in a file system folder.(This is the recommended native data format for ArcGIS stored and managed in a file system folder.)	Original data format for ArcGIS geodatabases stored and managed in Microsoft Access data files.(This is limited in size and tied to the

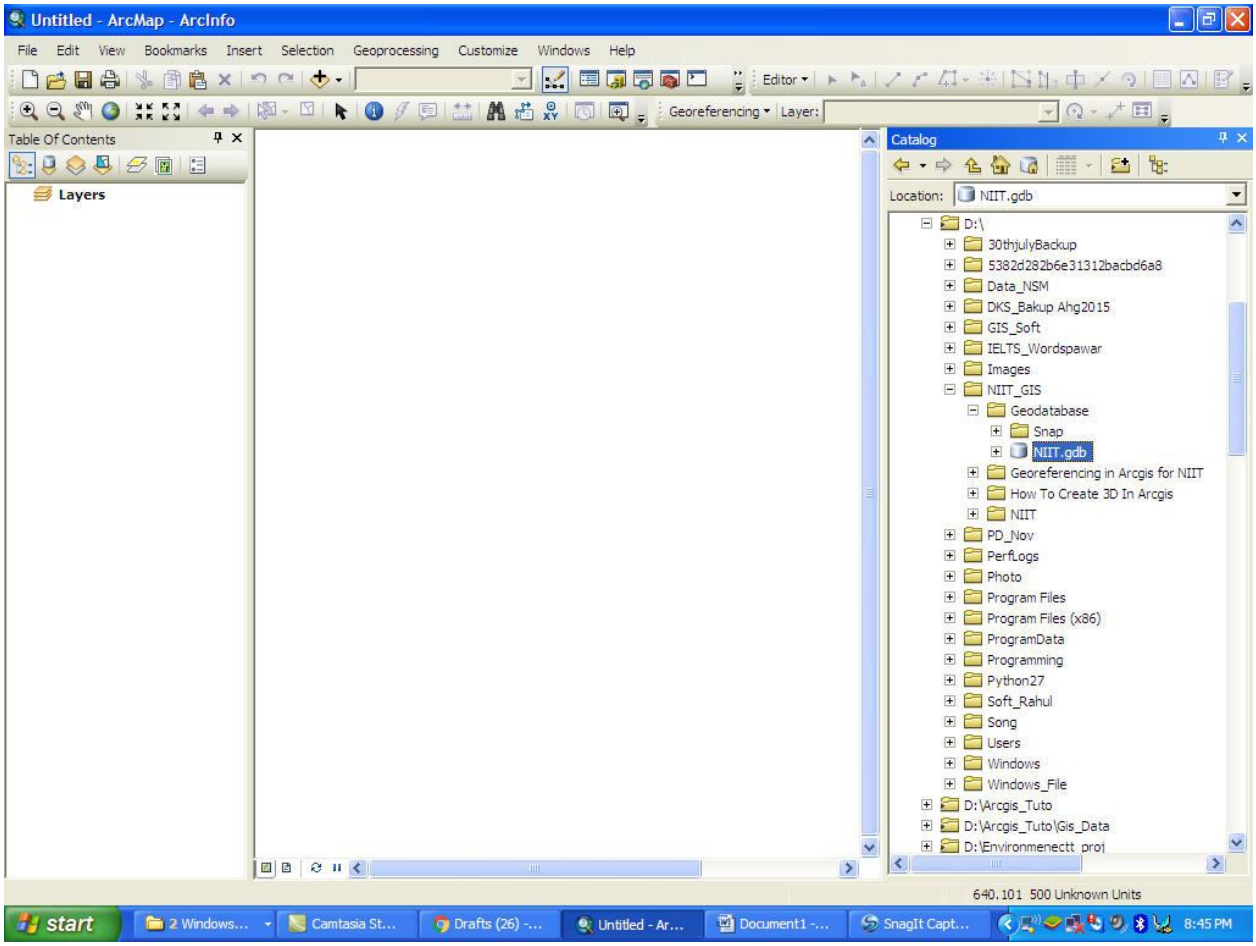
	a relational database.)		Windows operating system.)
Number of users	Multiuser: many readers and many writers	Single user and small workgroups:many readers or one writer per feature dataset, stand-alone feature class, or table. Concurrent use of any specific file eventually degrades for large numbers of readers.	Single user and small workgroups with smaller datasets: some readers and one writer. Concurrent use eventually degrades for large numbers of readers.
Storage format	• Oracle • Microsoft SQL Server • IBM DB2 • IBM Informix • PostgreSQL	Each dataset is a separate file on disk. A file geodatabase is a file folder that holds its dataset files.	All the contents in each personal geodatabase are held in a single Microsoft Access file (.mdb).
Size limits	Up to DBMS limits	One TB for each dataset. Each file geodatabase can hold many datasets. The 1 TB limit can be raised to 256 TB for extremely large image datasets. Each feature class can scale up to hundreds of millions of vector features per dataset.	Two GB per Access database. The effective limit before performance degrades is typically between 250 and 500 MB per Access database file.
Versioning support	Fully supported across all DBMSs; includes cross-database replication, updates using checkout and	Only supported as a geodatabase for clients who post updates using checkout and check-in and as a client to which	Only supported as a geodatabase for clients who post updates using checkout and

	check-in, and historical archiving	updates can be sent using one-way replication.	check-in and as a client to which updates can be sent using one-way replication.
Platforms	Windows, UNIX, Linux, and direct connections to DBMSs that can potentially run on any platform on the user's local network	Cross-platform.	Windows only.
Security and permissions	Provided by DBMS	Operating file system security.	Windows file system security.
Database administration tools	Full DBMS functions for backup, recovery, replication, SQL support, security, and so on	File system management.	Windows file system management.
Notes	Requires the use of ArcSDE technology; ArcSDE for SQL Server Express included with • ArcEditor and ArcInfo • ArcGIS Engine • ArcGIS Server Workgroup ArcSDE for all other DBMSs included with ArcGIS Server Enterprise	You can optionally store data in a read-only compressed format to reduce storage requirements.	Often used as an attribute table manager (via Microsoft Access). Users like the string handling for text attributes.

How to Create Geodatabases in Arcmap

1.File Geodatabases: (.gdb)

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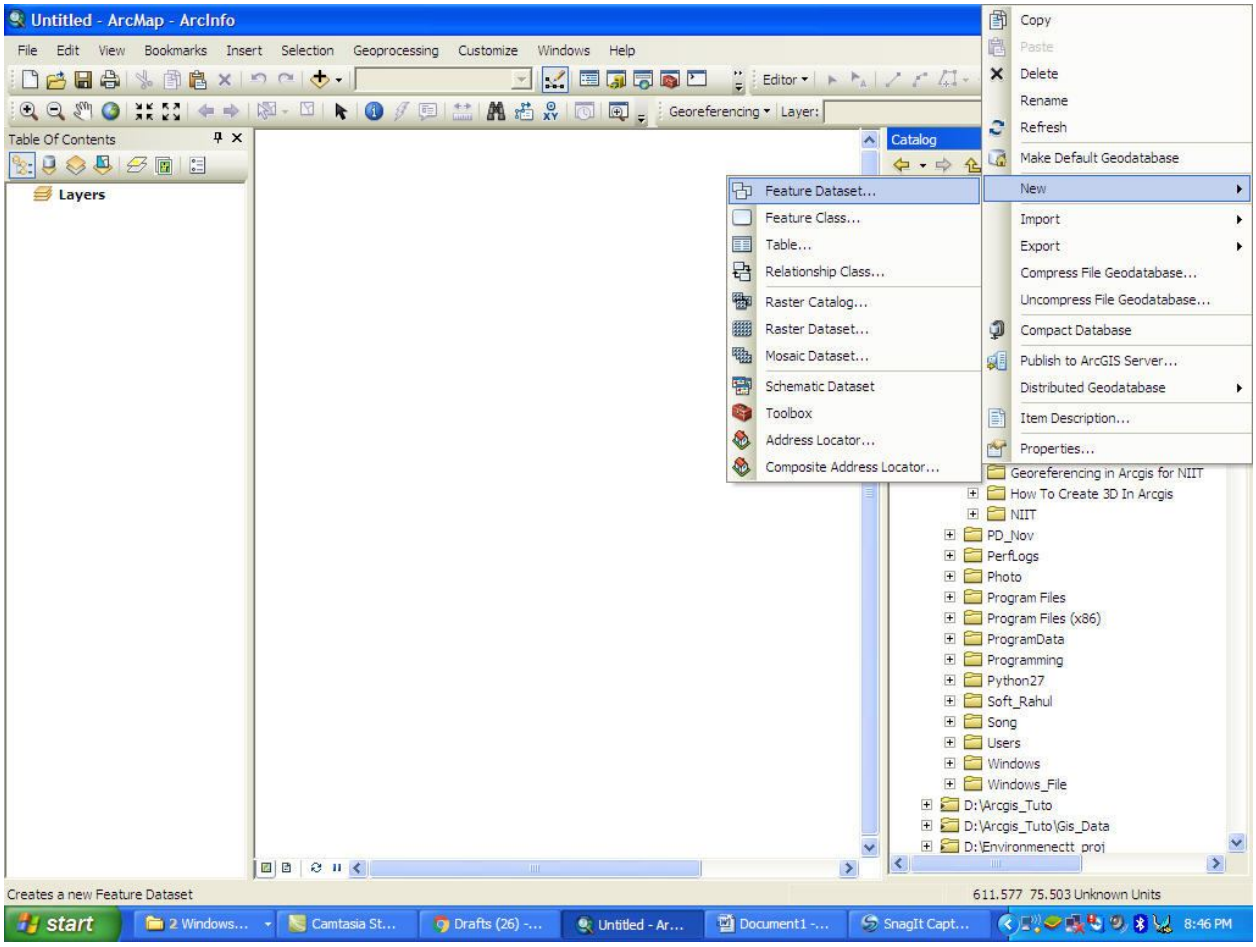
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Feature Class...
Table...
Relationship Class...
Raster Catalog...
Raster Dataset...
Mosaic Dataset...
Schematic Dataset
Toolbox
Address Locator...
Composite Address Locator...
Copy
Paste
Delete
Rename
Refresh
Make Default Geodatabase
New
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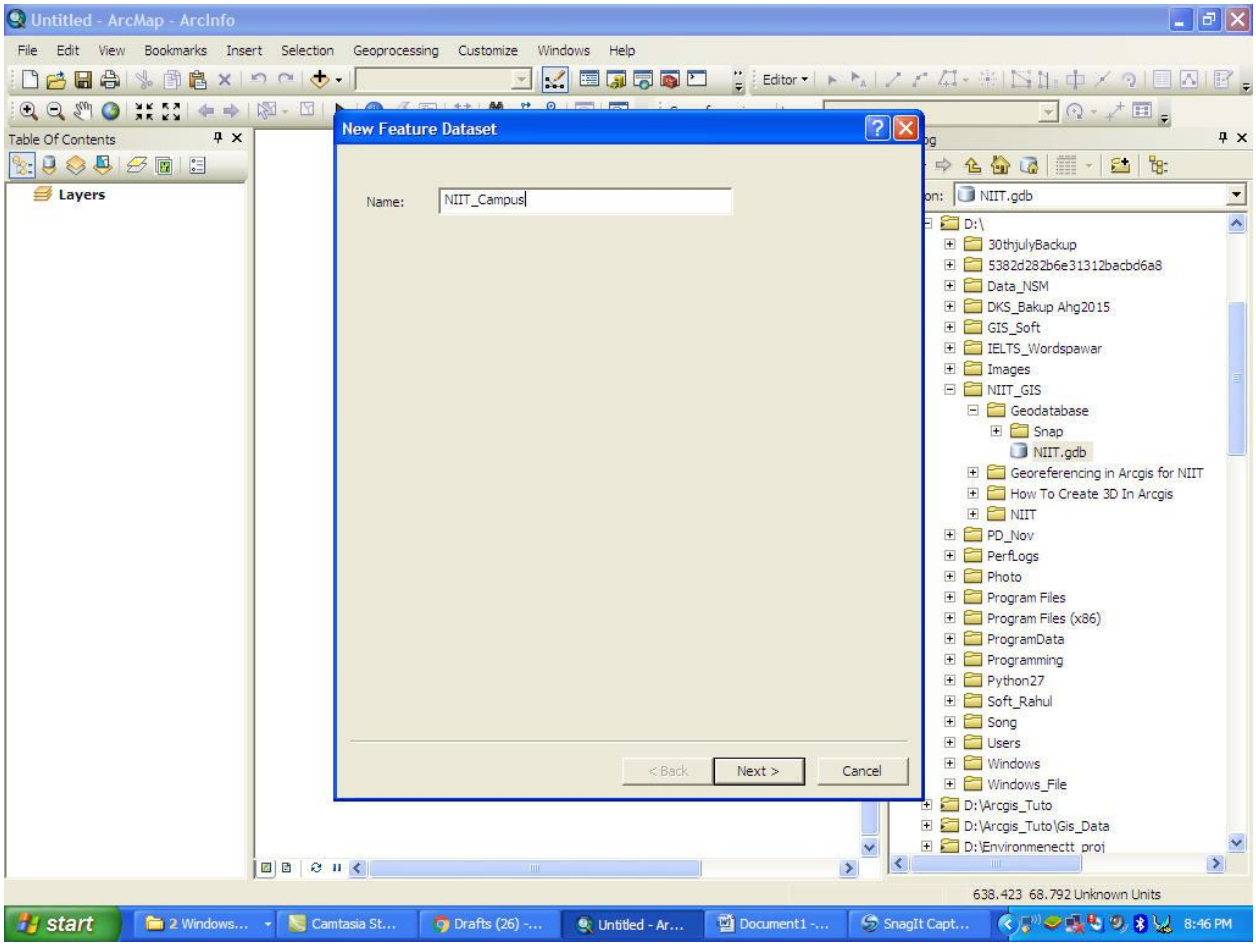
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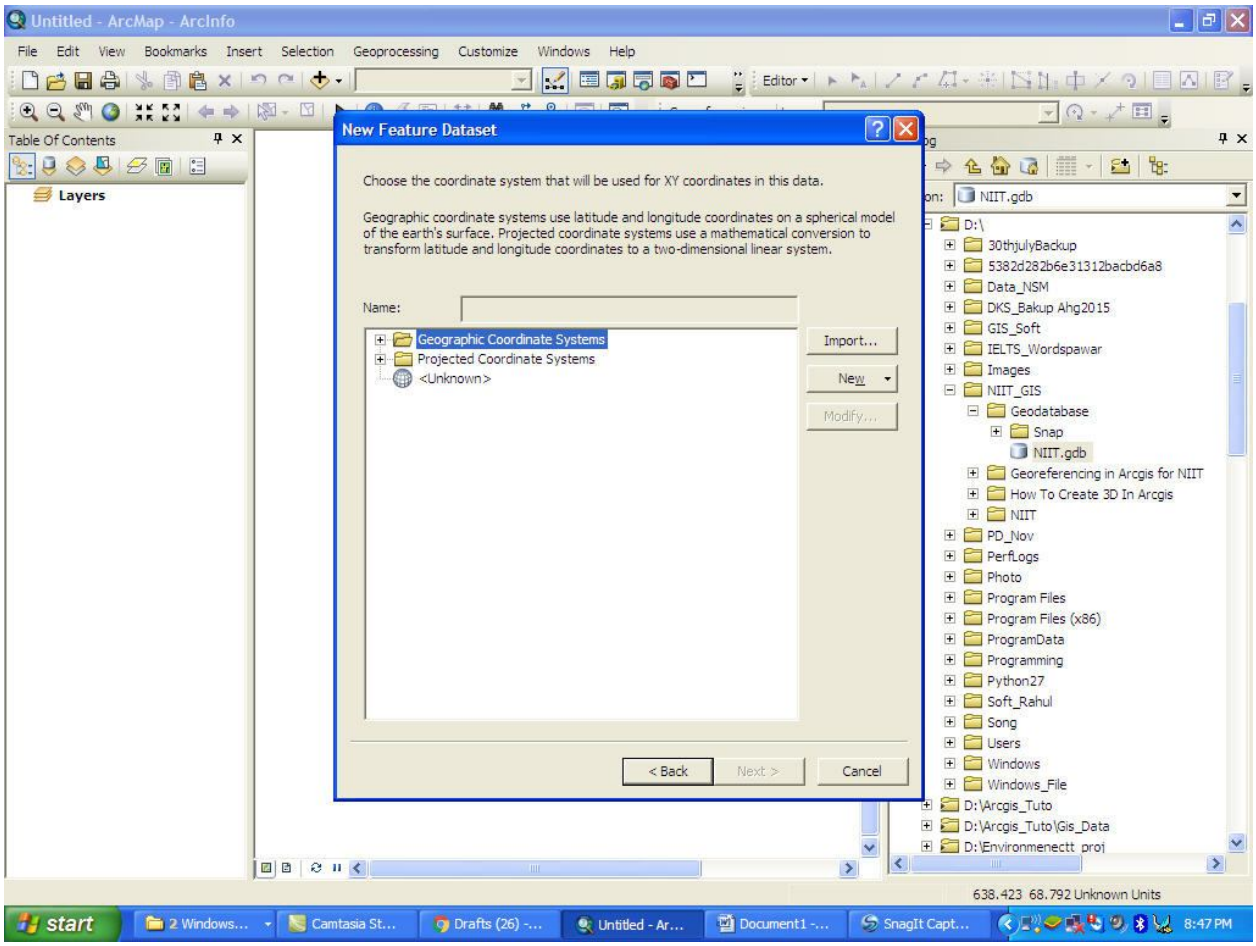
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Layers
New Feature Dataset
Choose the coordinate system that will be used for XY coordinates in this data.
Geographic coordinate systems use latitude and longitude coordinates on a spherical model of the earth's surface. Projected coordinate systems use a mathematical conversion to transform latitude and longitude coordinates to a two-dimensional linear system.
Name:
Geographic Coordinate Systems
Projected Coordinate Systems
<Unknown>
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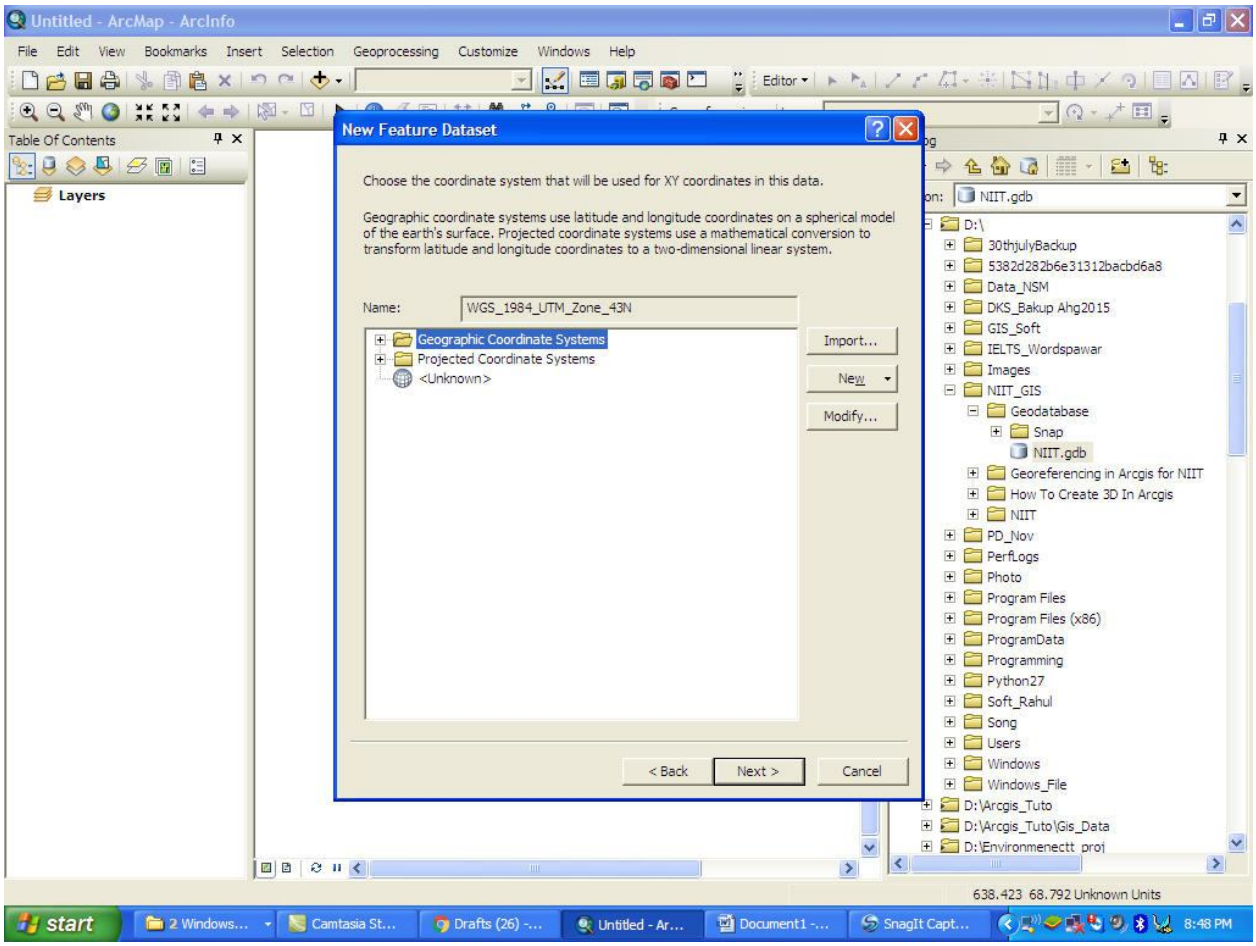
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New Feature Dataset
Choose the coordinate system that will be used for XY coordinates in this data.
Geographic coordinate systems use latitude and longitude coordinates on a spherical model of the earth's surface. Projected coordinate systems use a mathematical conversion to transform latitude and longitude coordinates to a two-dimensional linear system.
Name: WGS_1984_UTM_Zone_43N
Geographic Coordinate Systems
Projected Coordinate Systems
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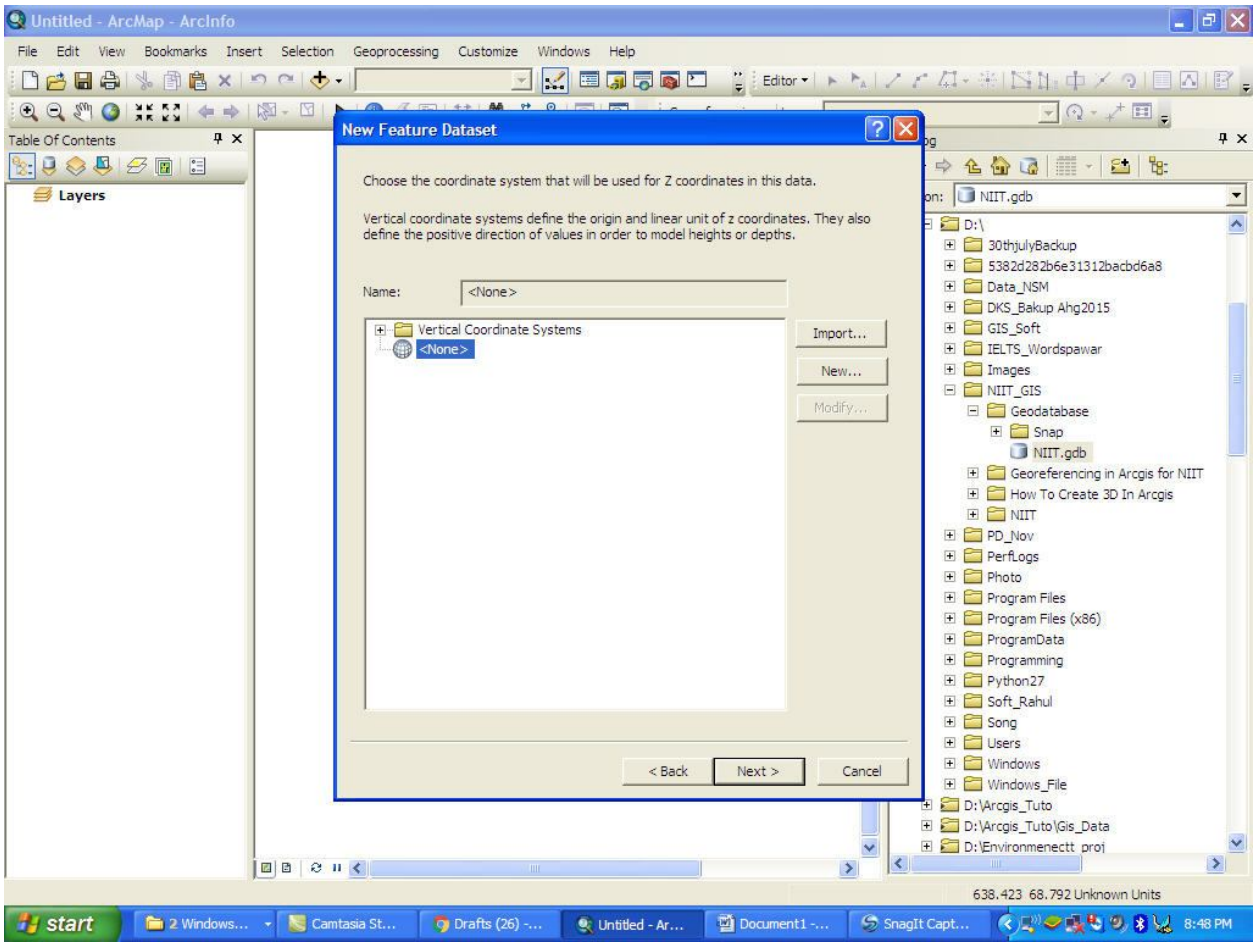
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Layers
New Feature Dataset
Choose the coordinate system that will be used for Z coordinates in this data.
Vertical coordinate systems define the origin and linear unit of z coordinates. They also define the positive direction of values in order to model heights or depths.
Name:
<None>
Vertical Coordinate Systems
<None>
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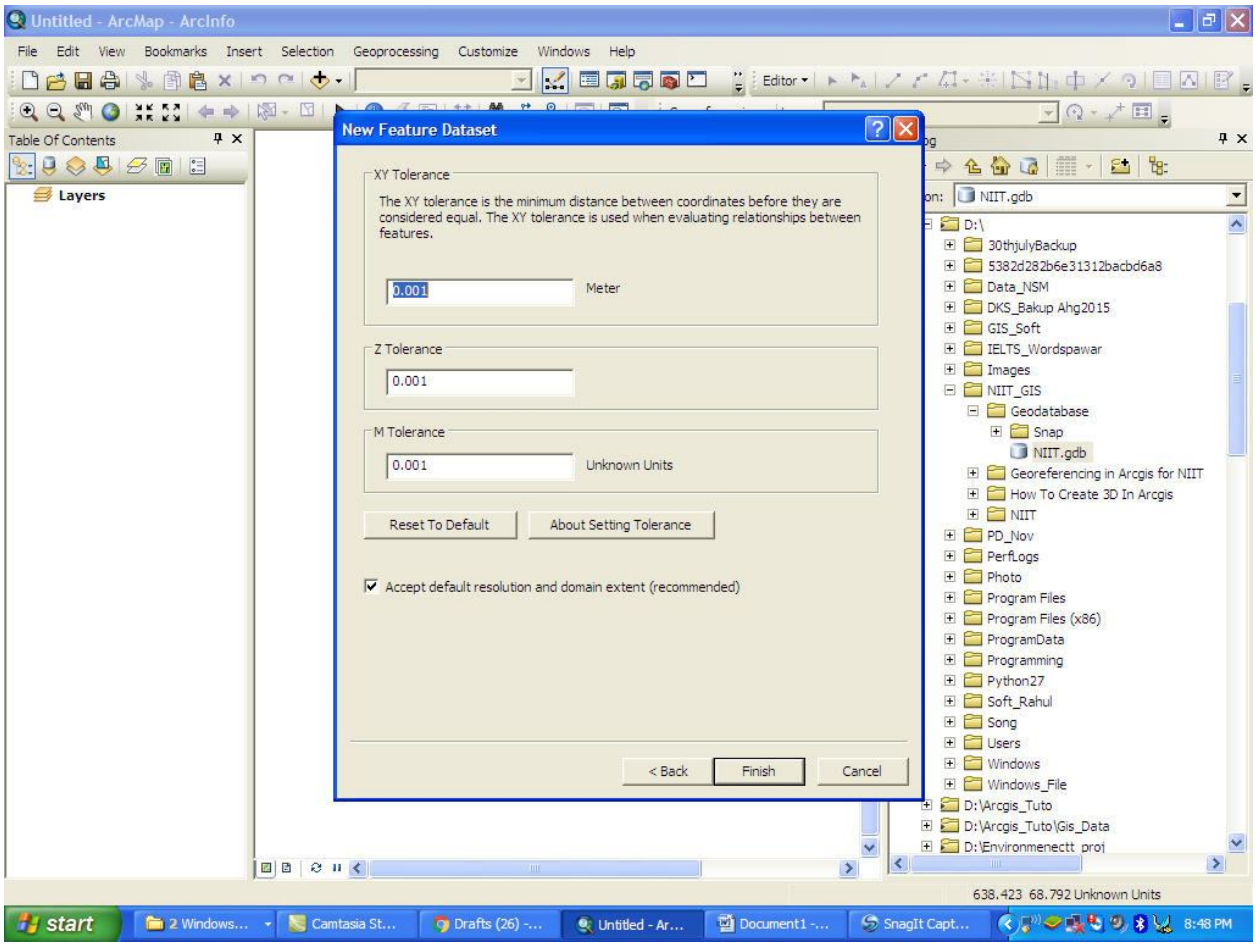
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New Feature Dataset
XY Tolerance
The XY tolerance is the minimum distance between coordinates before they are considered equal. The XY tolerance is used when evaluating relationships between features.
0.001
Meter
Z Tolerance
0.001
M Tolerance
0.001
Unknown Units
Reset To Default
About Setting Tolerance
Accept default resolution and domain extent (recommended)
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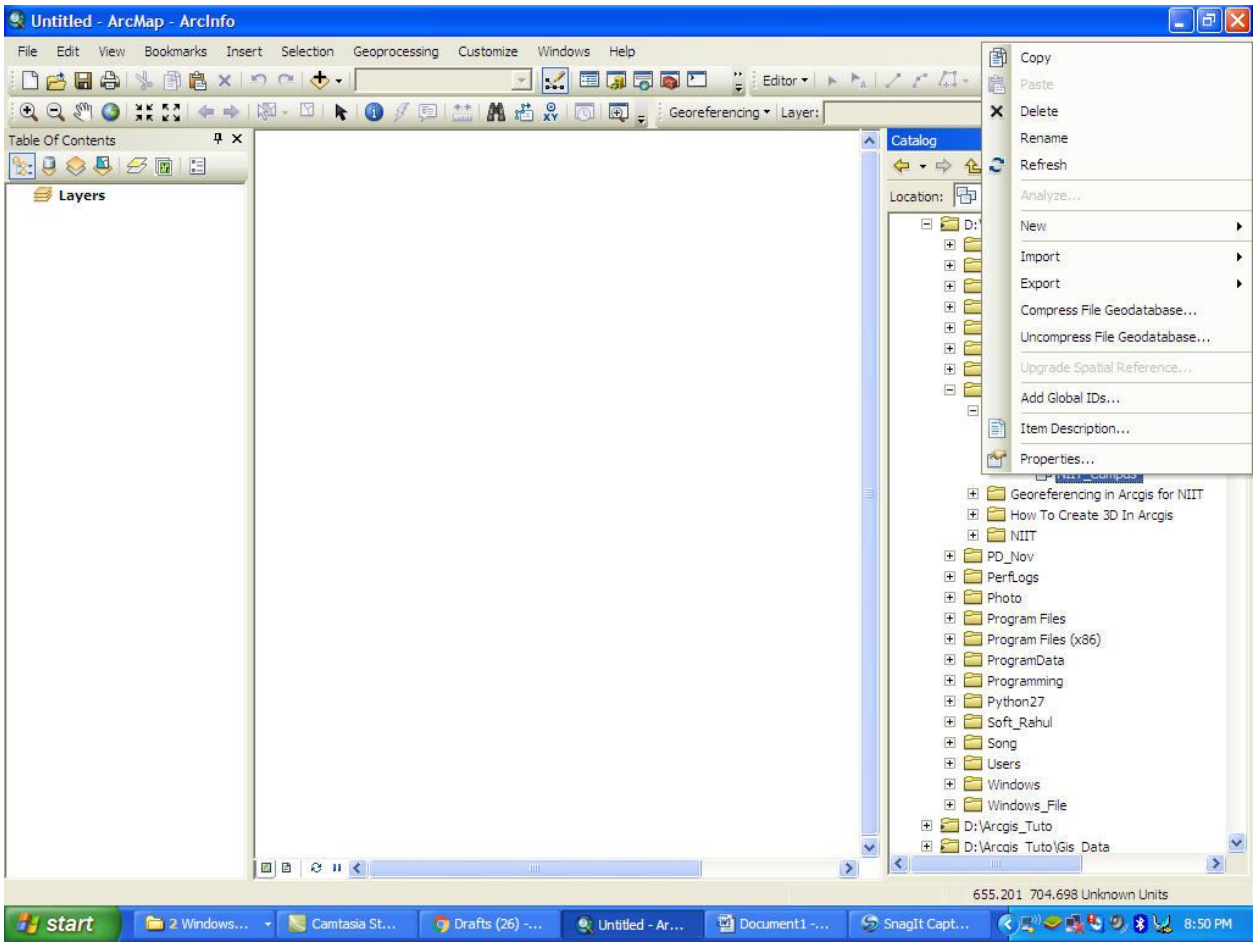
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Uncompress File Geodatabase...
Upgrade Spatial Reference...
Add Global IDs...
Item Description...
Properties...
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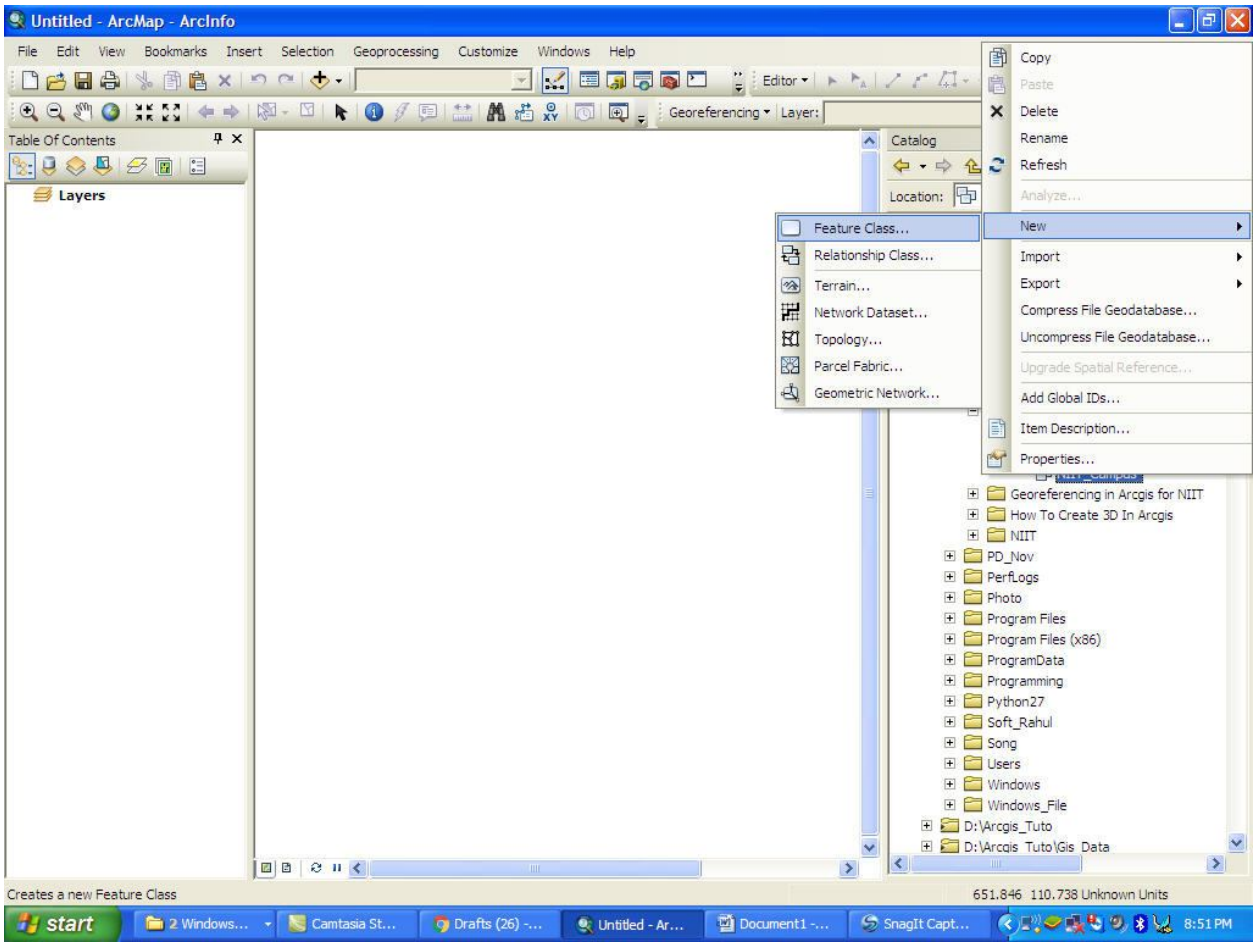
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Relationship Class...
Terrain...
Network Dataset...
Topology...
Parcel Fabric...
Geometric Network...
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Rename
Refresh
Analyze...
New
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Compress File Geodatabase...
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Upgrade Spatial Reference...
Add Global IDs...
Item Description...
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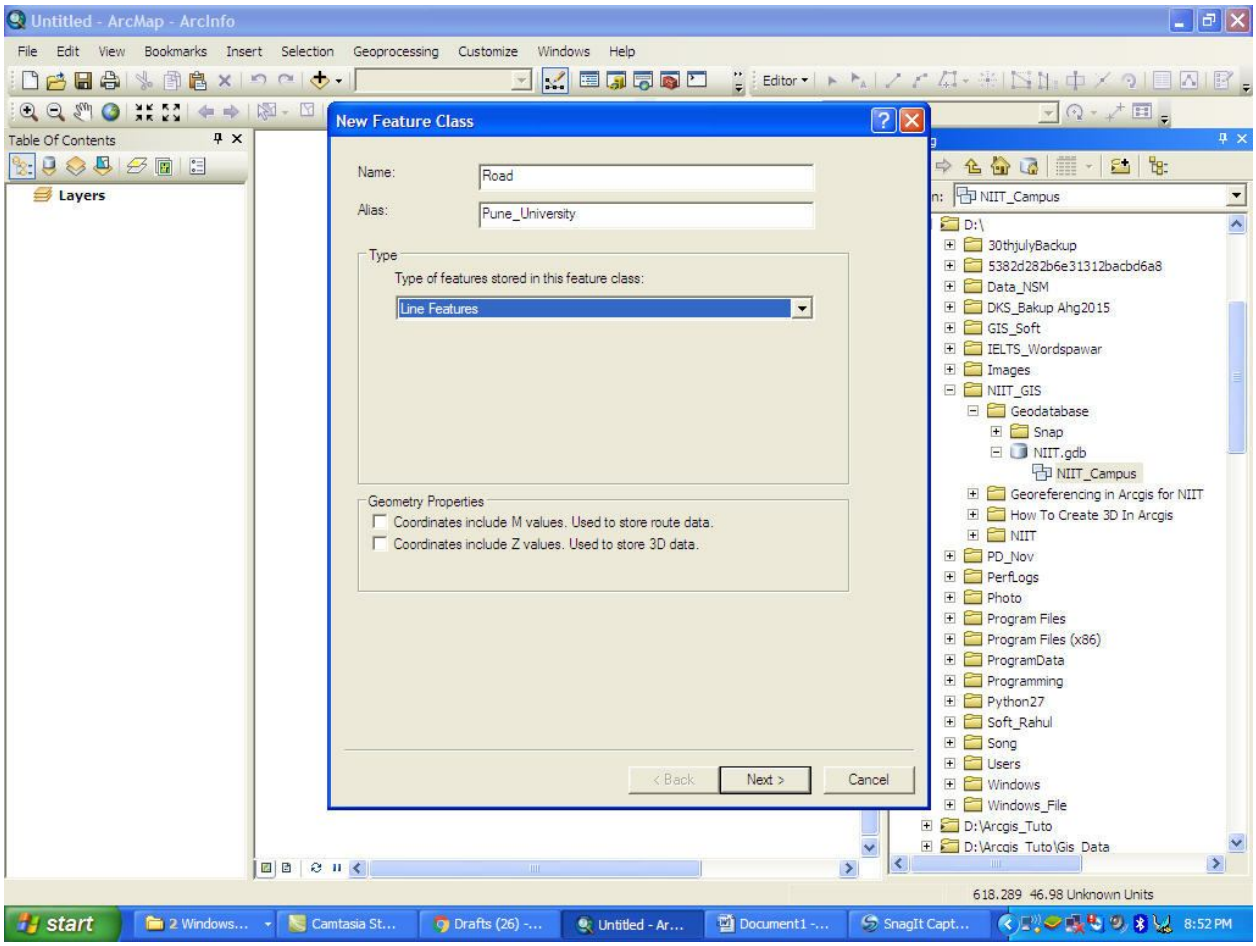
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File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
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Layers
New Feature Class
Name:
Road
Alias:
Pune_University
Type
Type of features stored in this feature class:
Line Features
Geometry Properties
Coordinates include M values. Used to store route data.
Coordinates include Z values. Used to store 3D data.
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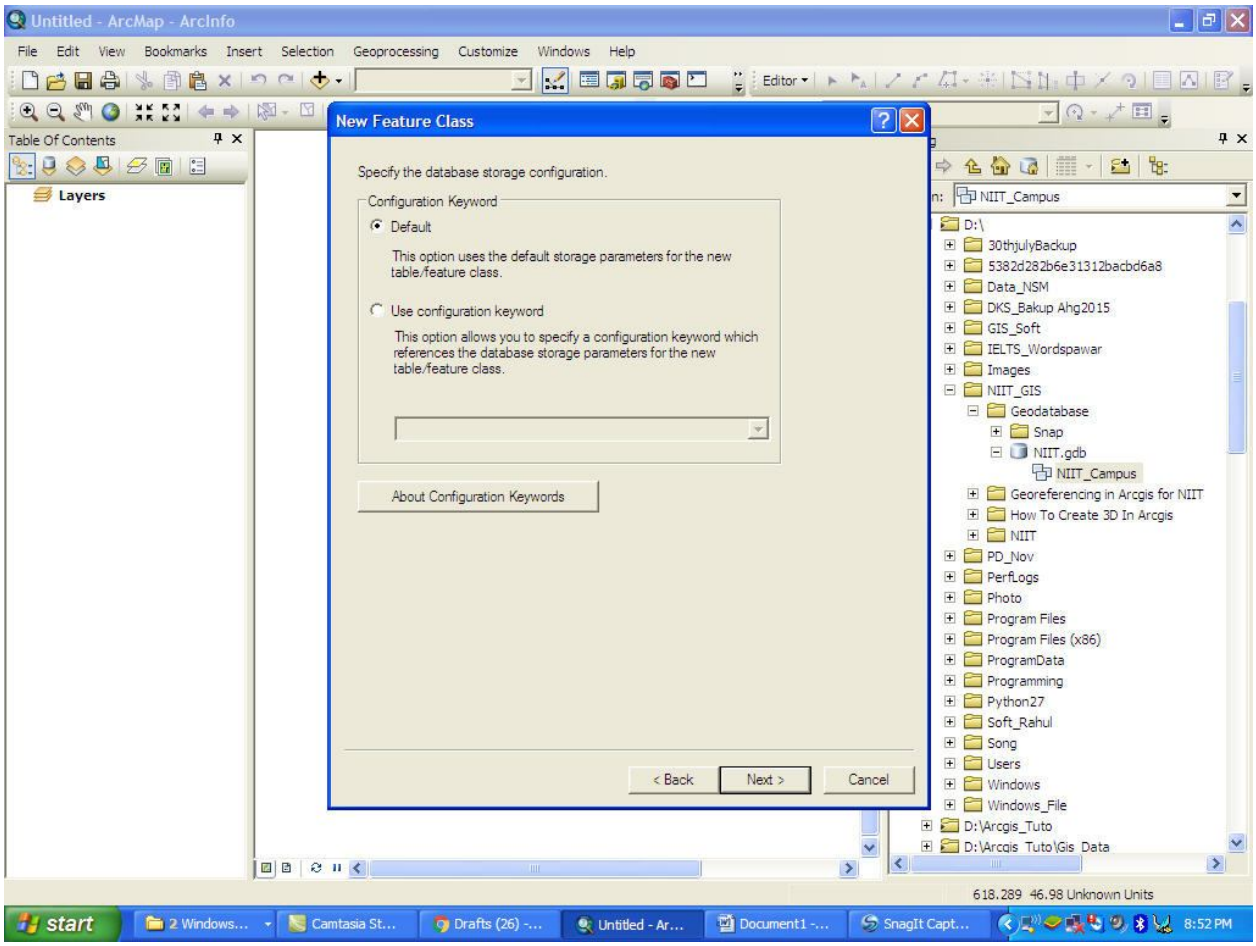
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Layers
New Feature Class
Specify the database storage configuration.
Configuration Keyword
Default
This option uses the default storage parameters for the new table/feature class.
Use configuration keyword
This option allows you to specify a configuration keyword which references the database storage parameters for the new table/feature class.
About Configuration Keywords
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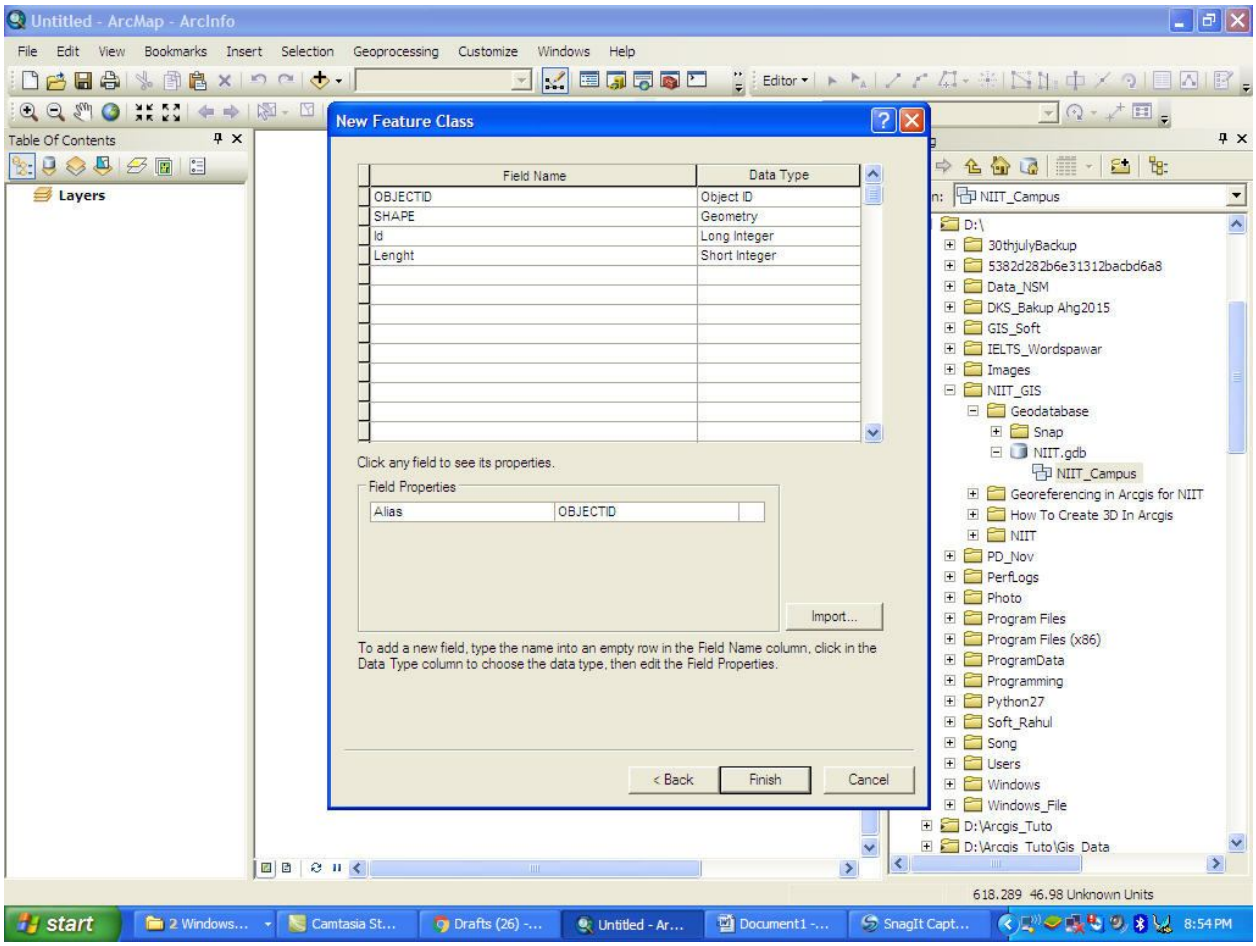
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Layers
New Feature Class
Field Name
Data Type
OBJECTID
Object ID
SHAPE
Geometry
Id
Long Integer
Lenght
Short Integer
Click any field to see its properties.
Field Properties
Alias
OBJECTID
Import...
To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.
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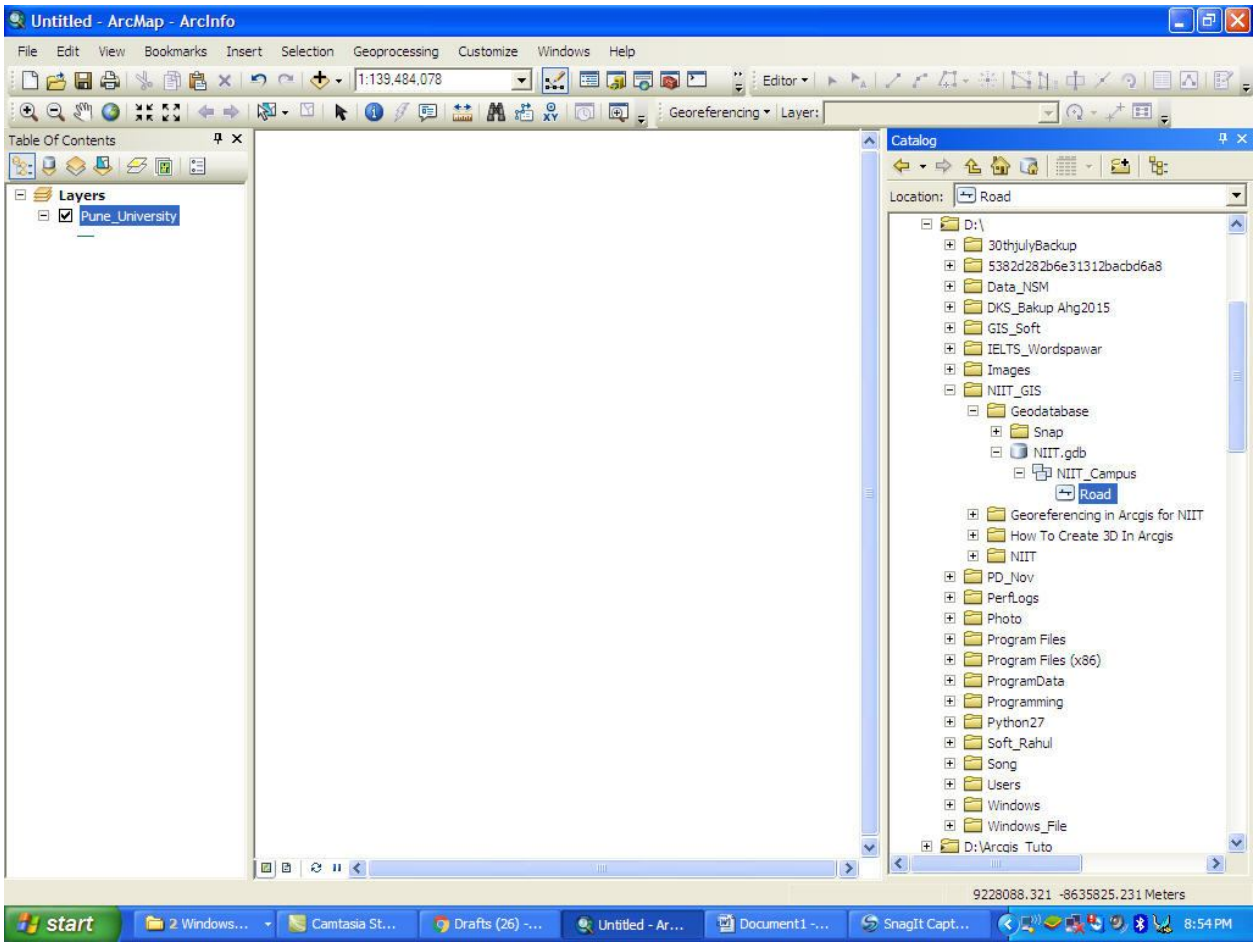
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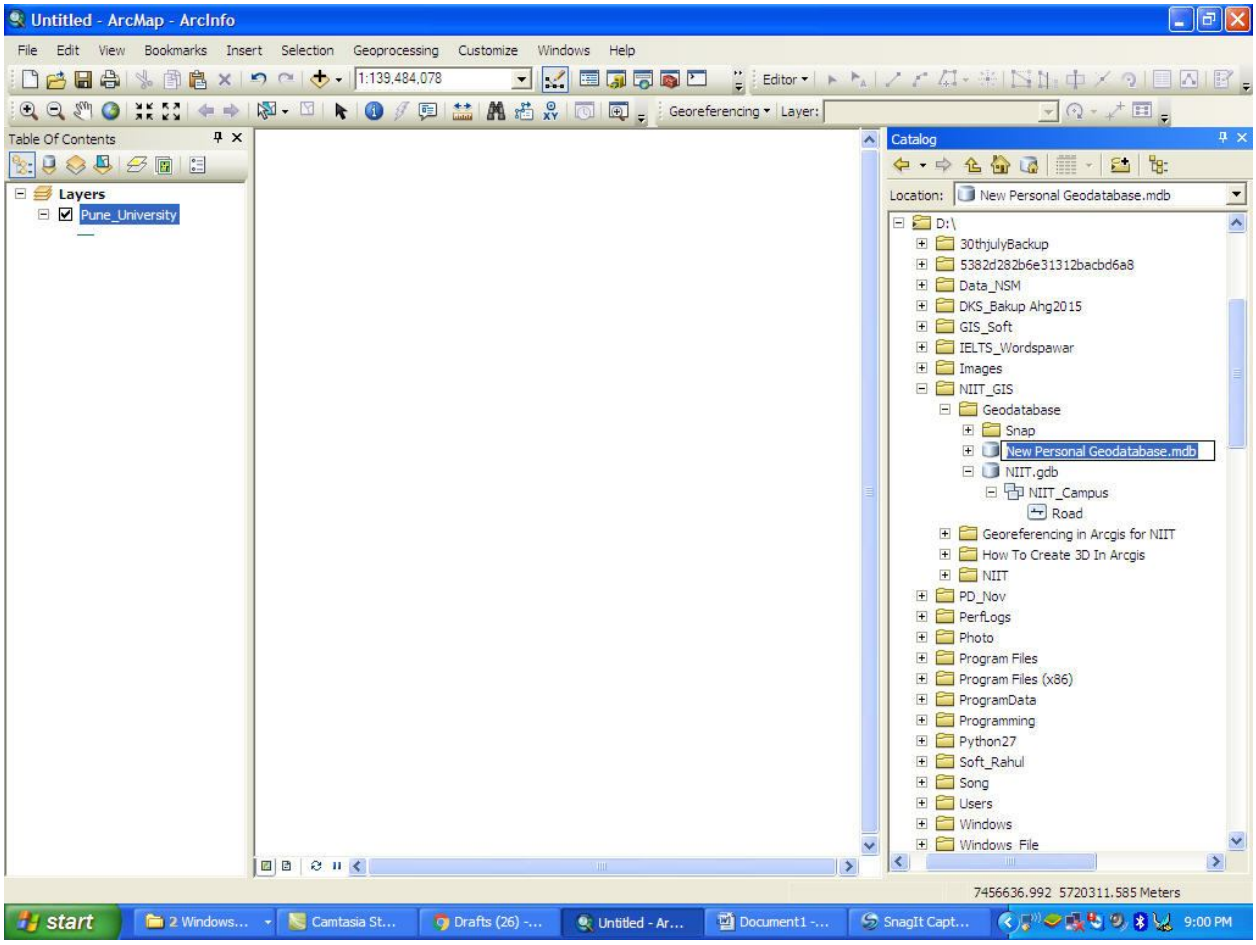
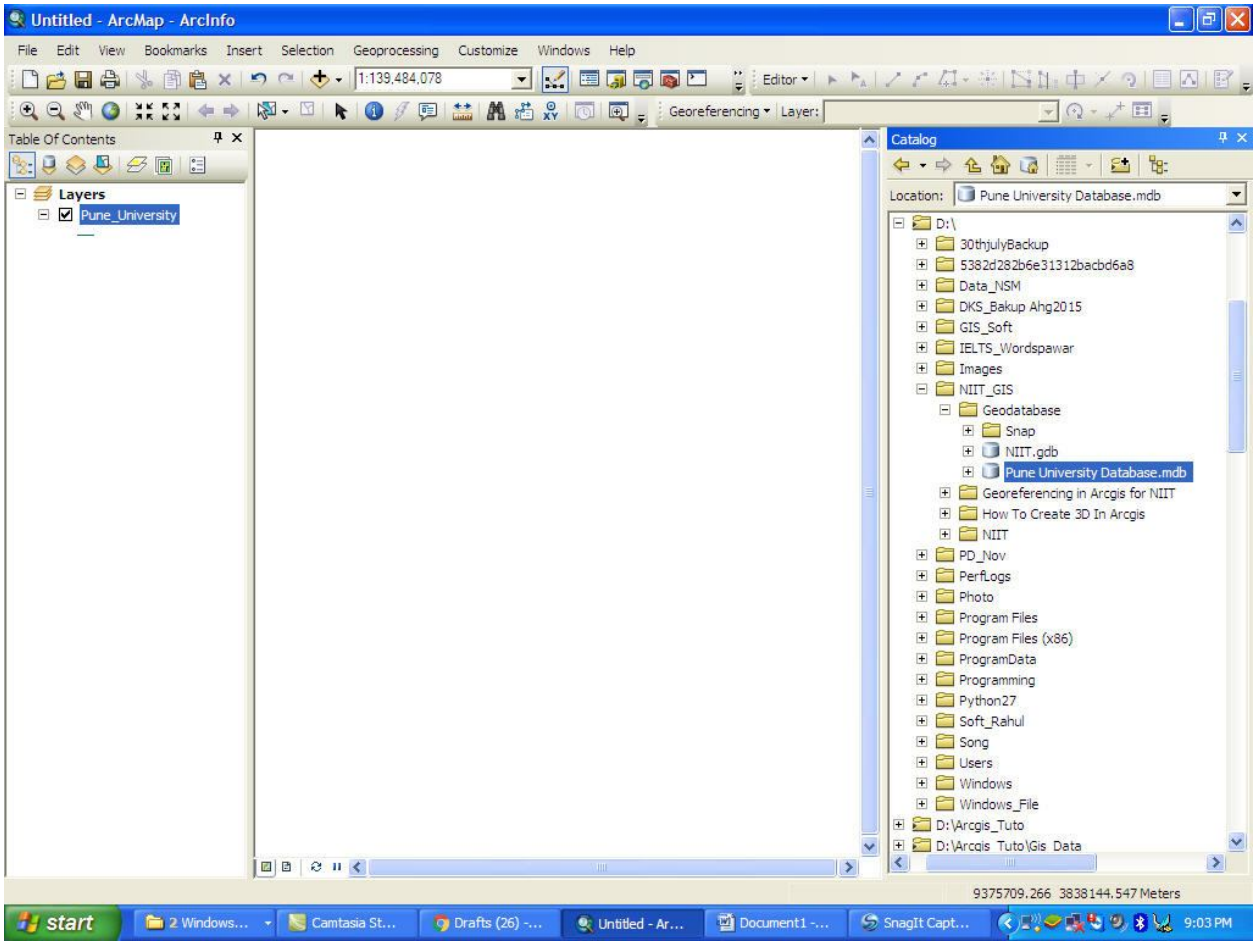
2) Personal Geodatabases (.mdb)




Untitled - ArcMap - ArcInfo
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
Editor
Georeferencing Layer:
Table Of Contents
Layers
Pune_University
Catalog
Location: Pune University Database.mdb
D:\
30thjulyBackup
5382d282b6e31312bacbd6a8
Data_NSM
DKS_Bakup Ahg2015
GIS_Soft
IELTS_Wordspawar
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Program Files (x86)
ProgramData
Programming
Python27
Soft_Rahul
Song
Users
Windows
Windows_File
D:\Arcgis_Tuto
D:\Arcgis_Tuto\Gis_Data
9375709.266 3838144.547 Meters
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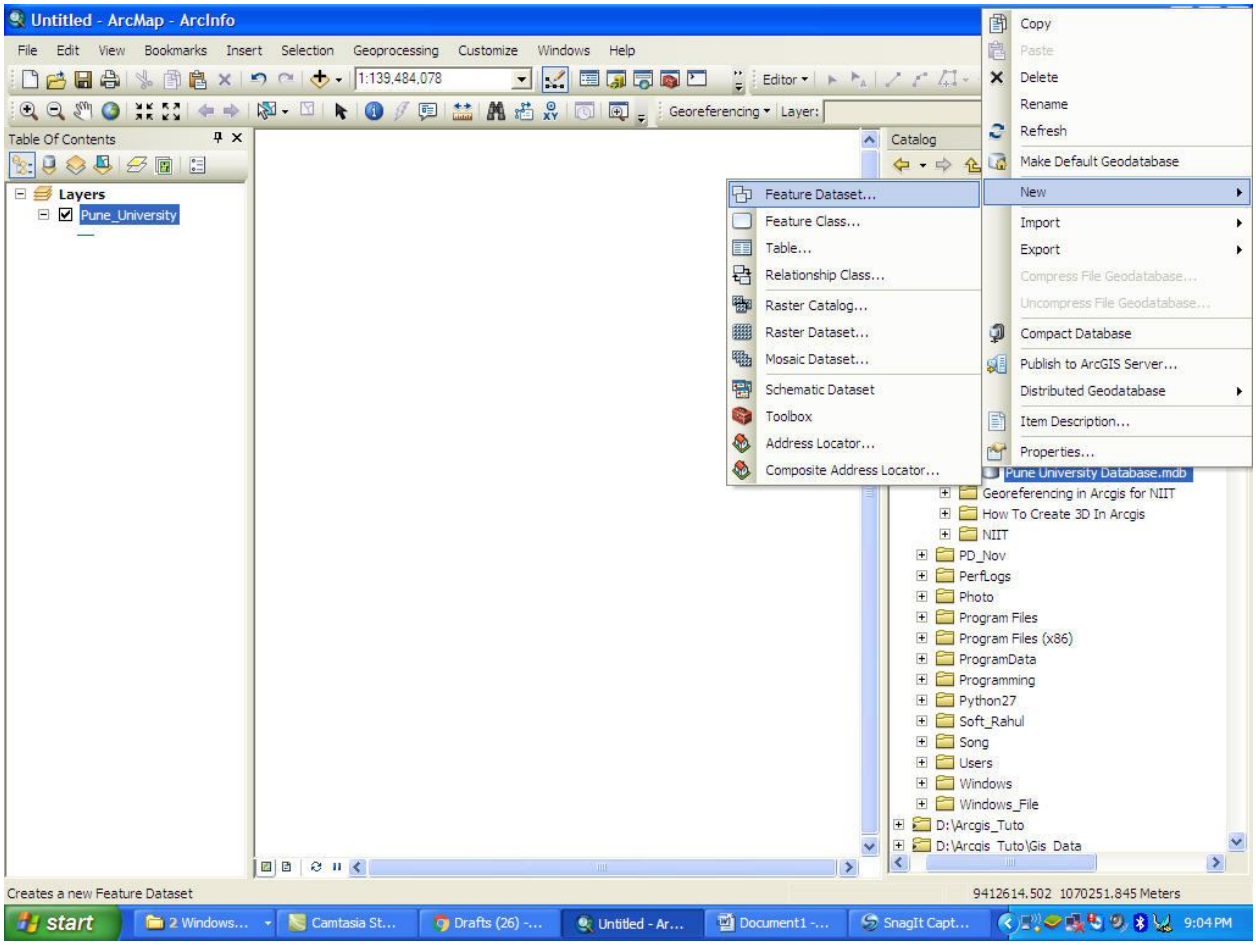
9:03 PM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File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
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Editor
Georeferencing Layer:
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Layers
Pune_University
Catalog
Feature Dataset...
Feature Class...
Table...
Relationship Class...
Raster Catalog...
Raster Dataset...
Mosaic Dataset...
Schematic Dataset
Toolbox
Address Locator...
Composite Address Locator...
Copy
Paste
Delete
Rename
Refresh
Make Default Geodatabase
New
Import
Export
Compress File Geodatabase...
Uncompress File Geodatabase...
Compact Database
Publish to ArcGIS Server...
Distributed Geodatabase
Item Description...
Properties...
Pune University Database.mdb
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Program Files (x86)
ProgramData
Programming
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Soft_Rahul
Song
Users
Windows
Windows_File
D:\Arcgis_Tuto
D:\Arcgis_Tuto\Gis_Data
Creates a new Feature Dataset
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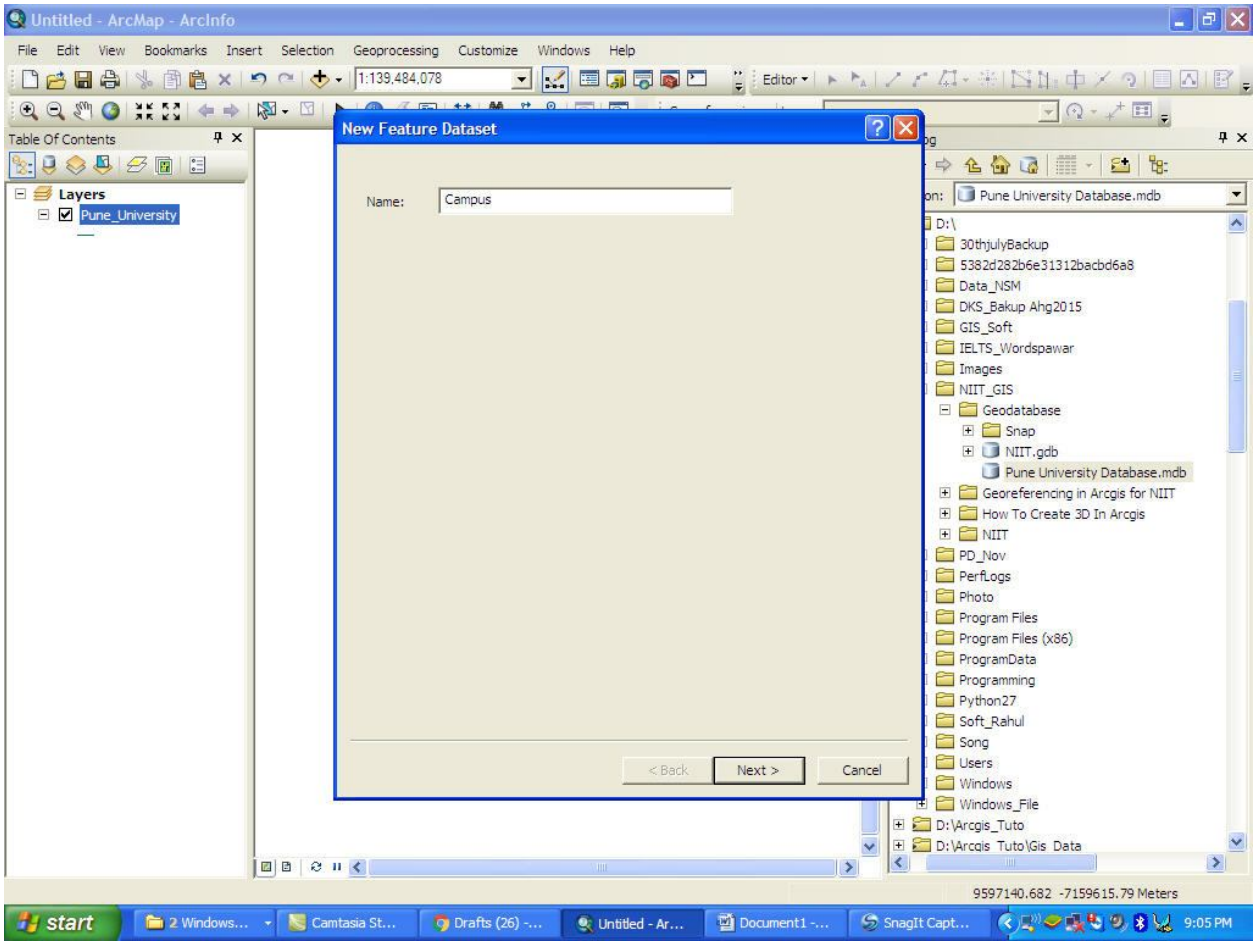
9:04 PM


Untitled - ArcMap - ArcInfo
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
Editor
Table Of Contents
Layers
Pune_University
New Feature Dataset
Name:
Campus
< Back
Next >
Cancel
Pune University Database.mdb
D:\
30thjulyBackup
5382d282b6e31312bacbd6a8
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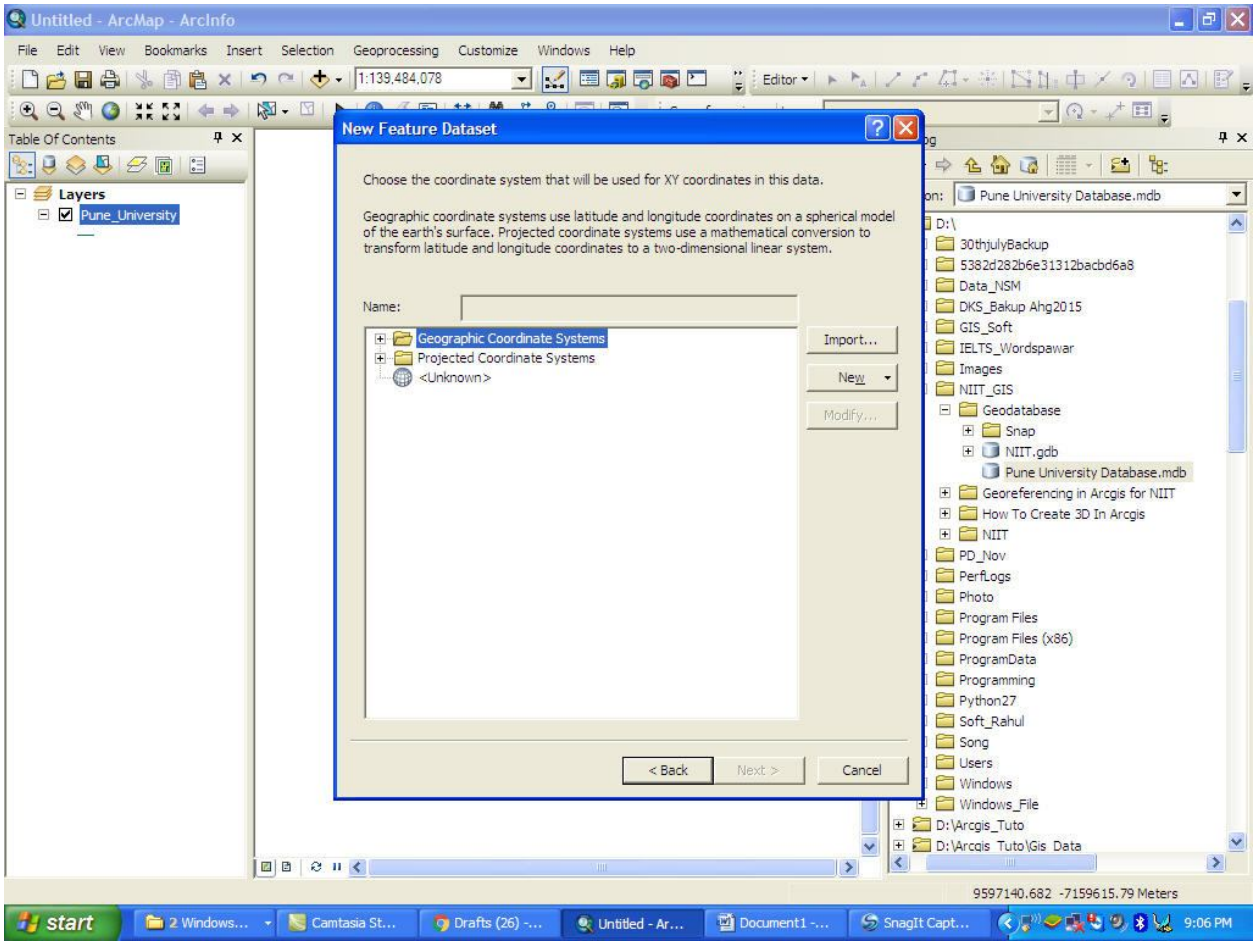
Untitled - ArcMap - ArcInfo
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
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Layers
Pune_University
New Feature Dataset
Choose the coordinate system that will be used for XY coordinates in this data.
Geographic coordinate systems use latitude and longitude coordinates on a spherical model of the earth's surface. Projected coordinate systems use a mathematical conversion to transform latitude and longitude coordinates to a two-dimensional linear system.
Name:
Geographic Coordinate Systems
Projected Coordinate Systems
<Unknown>
Import...
New
Modify...
< Back
Next >
Cancel
Pune University Database.mdb
D:\
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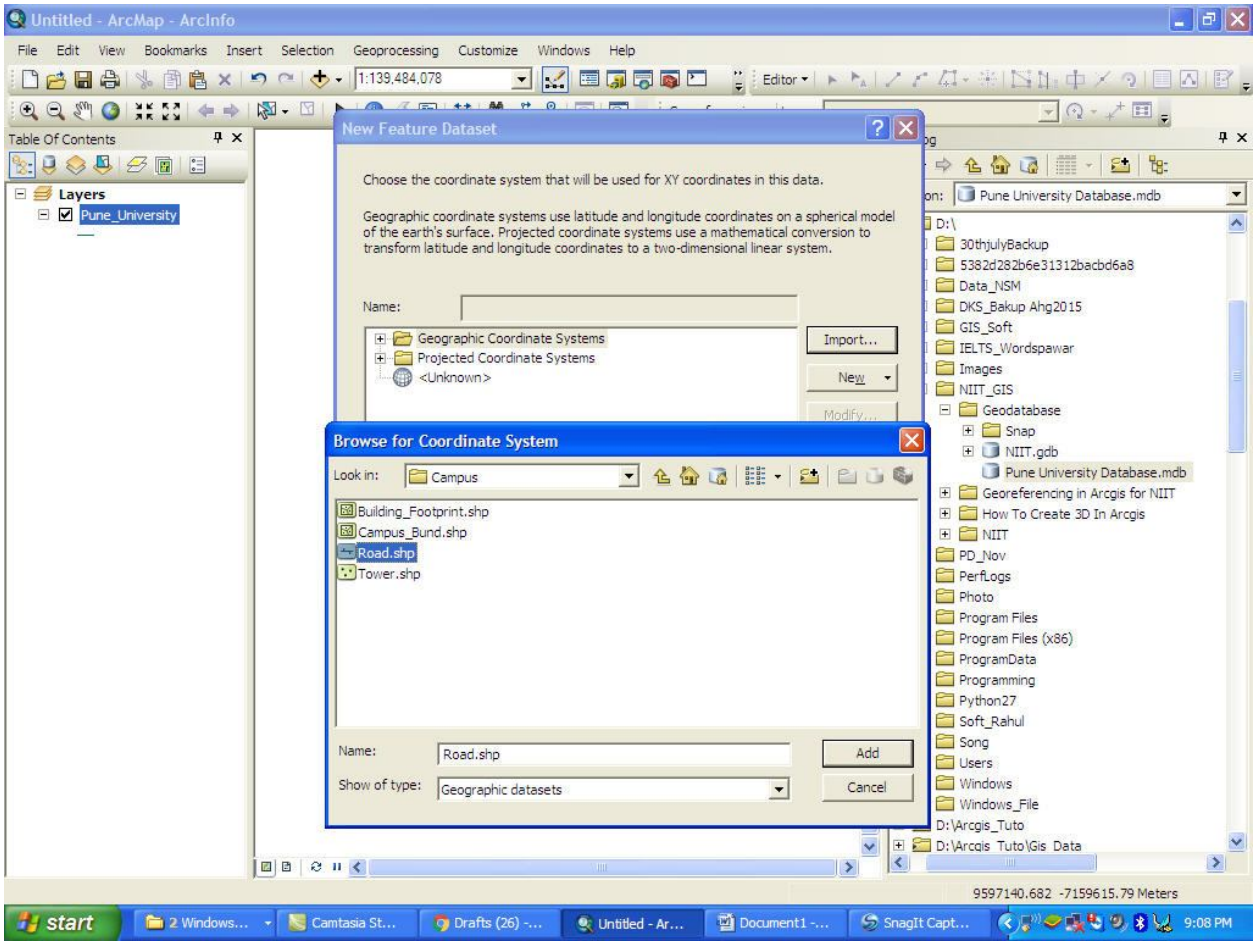
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File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
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Layers
Pune_University
New Feature Dataset
Choose the coordinate system that will be used for XY coordinates in this data.
Geographic coordinate systems use latitude and longitude coordinates on a spherical model of the earth's surface. Projected coordinate systems use a mathematical conversion to transform latitude and longitude coordinates to a two-dimensional linear system.
Name:
Geographic Coordinate Systems
Projected Coordinate Systems
<Unknown>
Import...
New
Modify...
Browse for Coordinate System
Look in:
Campus
Building_Footprint.shp
Campus_Bund.shp
Road.shp
Tower.shp
Name:
Road.shp
Show of type:
Geographic datasets
Add
Cancel
Pune University Database.mdb
D:\
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5382d282b6e31312bacbd6a8
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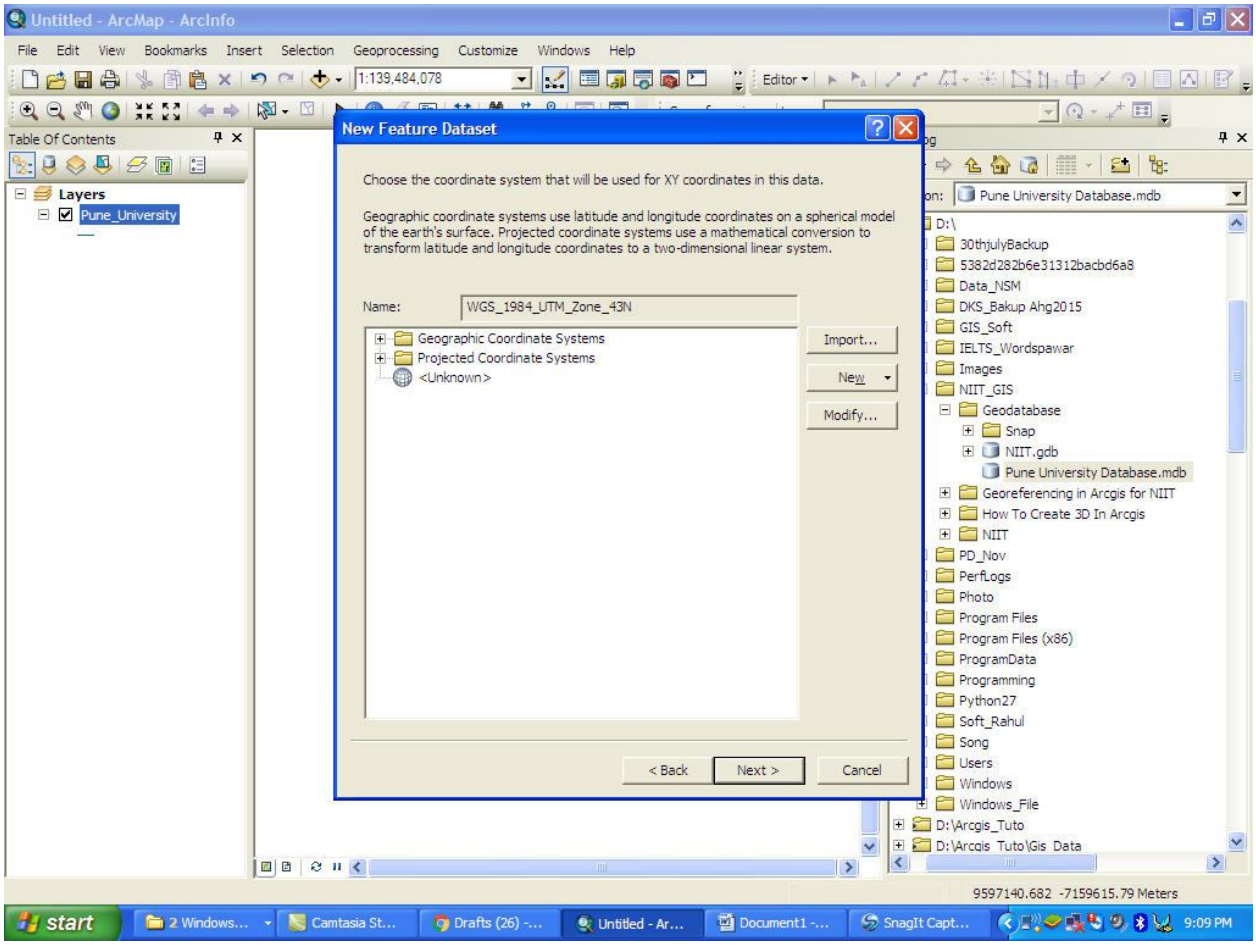
Untitled - ArcMap - ArcInfo
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
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New Feature Dataset
Choose the coordinate system that will be used for XY coordinates in this data.
Geographic coordinate systems use latitude and longitude coordinates on a spherical model of the earth's surface. Projected coordinate systems use a mathematical conversion to transform latitude and longitude coordinates to a two-dimensional linear system.
Name:
WGS_1984_UTM_Zone_43N
Geographic Coordinate Systems
Projected Coordinate Systems
<Unknown>
Import...
New
Modify...
< Back
Next >
Cancel
Pune University Database.mdb
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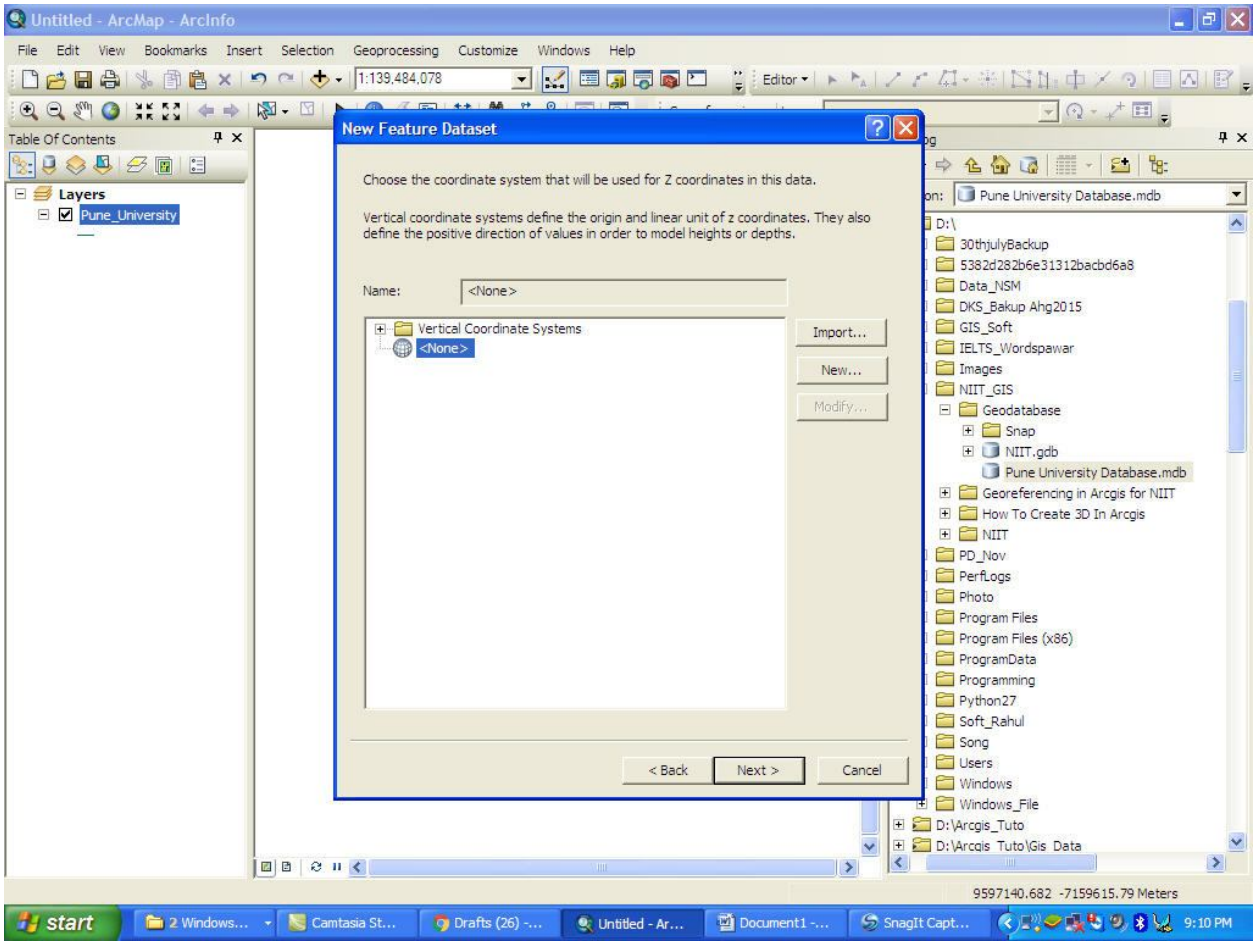
Untitled - ArcMap - ArcInfo
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1:139,484,078
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New Feature Dataset
Choose the coordinate system that will be used for Z coordinates in this data.
Vertical coordinate systems define the origin and linear unit of z coordinates. They also define the positive direction of values in order to model heights or depths.
Name:
<None>
Vertical Coordinate Systems
<None>
Import...
New...
Modify...
< Back
Next >
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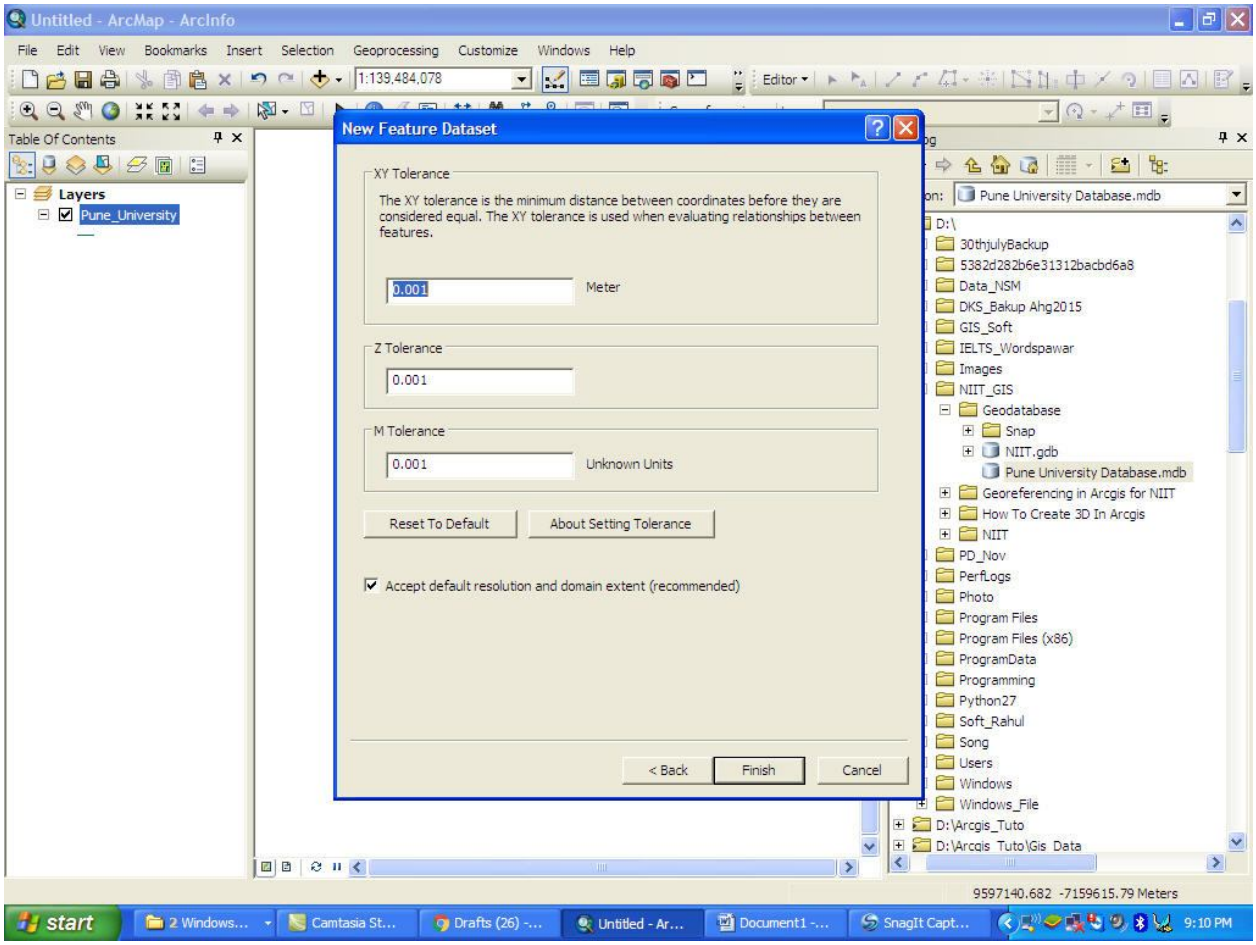
Untitled - ArcMap - ArcInfo
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
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Pune_University
New Feature Dataset
XY Tolerance
The XY tolerance is the minimum distance between coordinates before they are considered equal. The XY tolerance is used when evaluating relationships between features.
0.001
Meter
Z Tolerance
0.001
M Tolerance
0.001
Unknown Units
Reset To Default
About Setting Tolerance
Accept default resolution and domain extent (recommended)
< Back
Finish
Cancel
Pune University Database.mdb
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D:\Arcgis_Tuto\Gis_Data
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Camtasia St...
Drafts (26) -...
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Document1 -...
SnagIt Capt...
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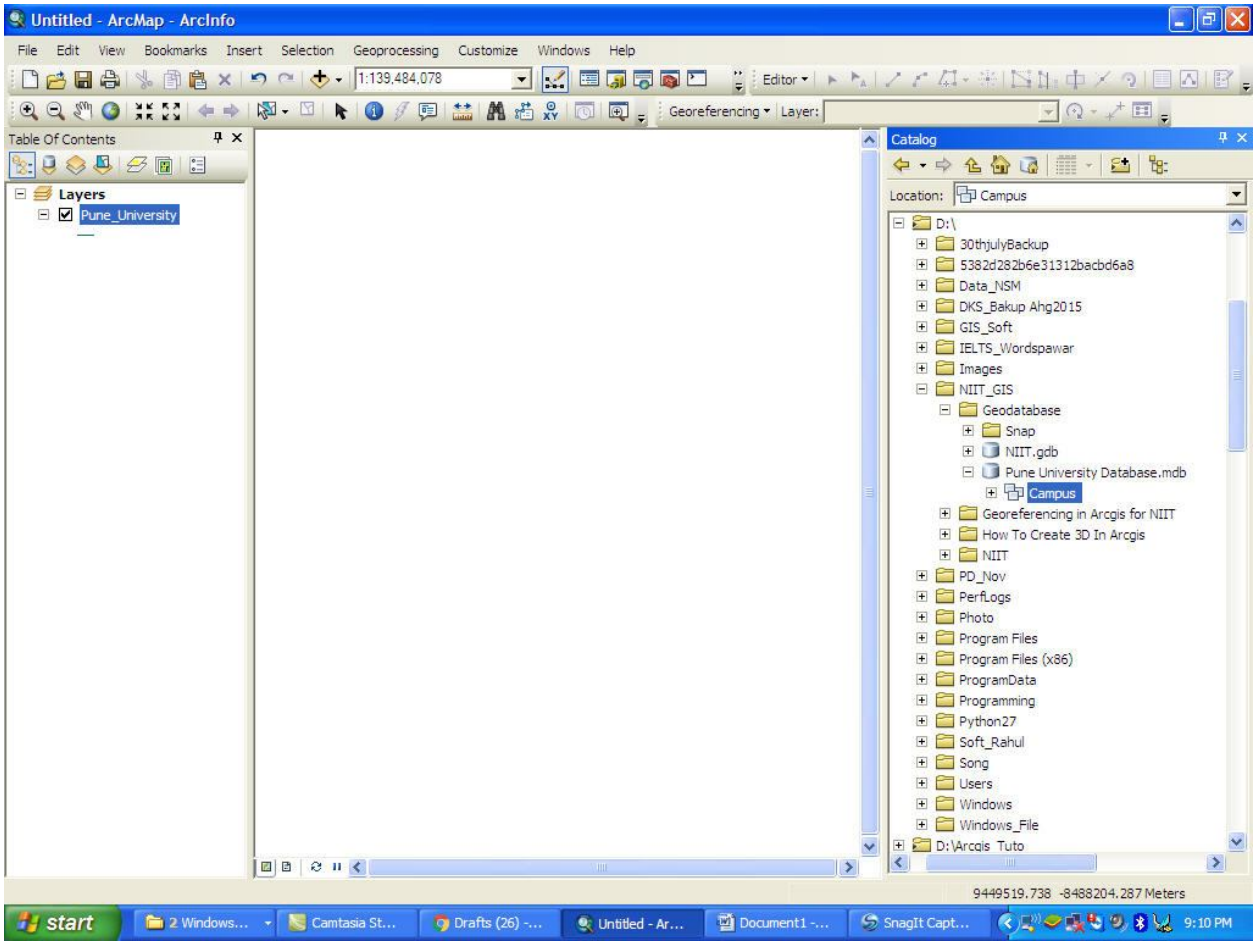
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File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
Editor
Georeferencing Layer:
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Layers
Pune_University
Catalog
Location: Campus
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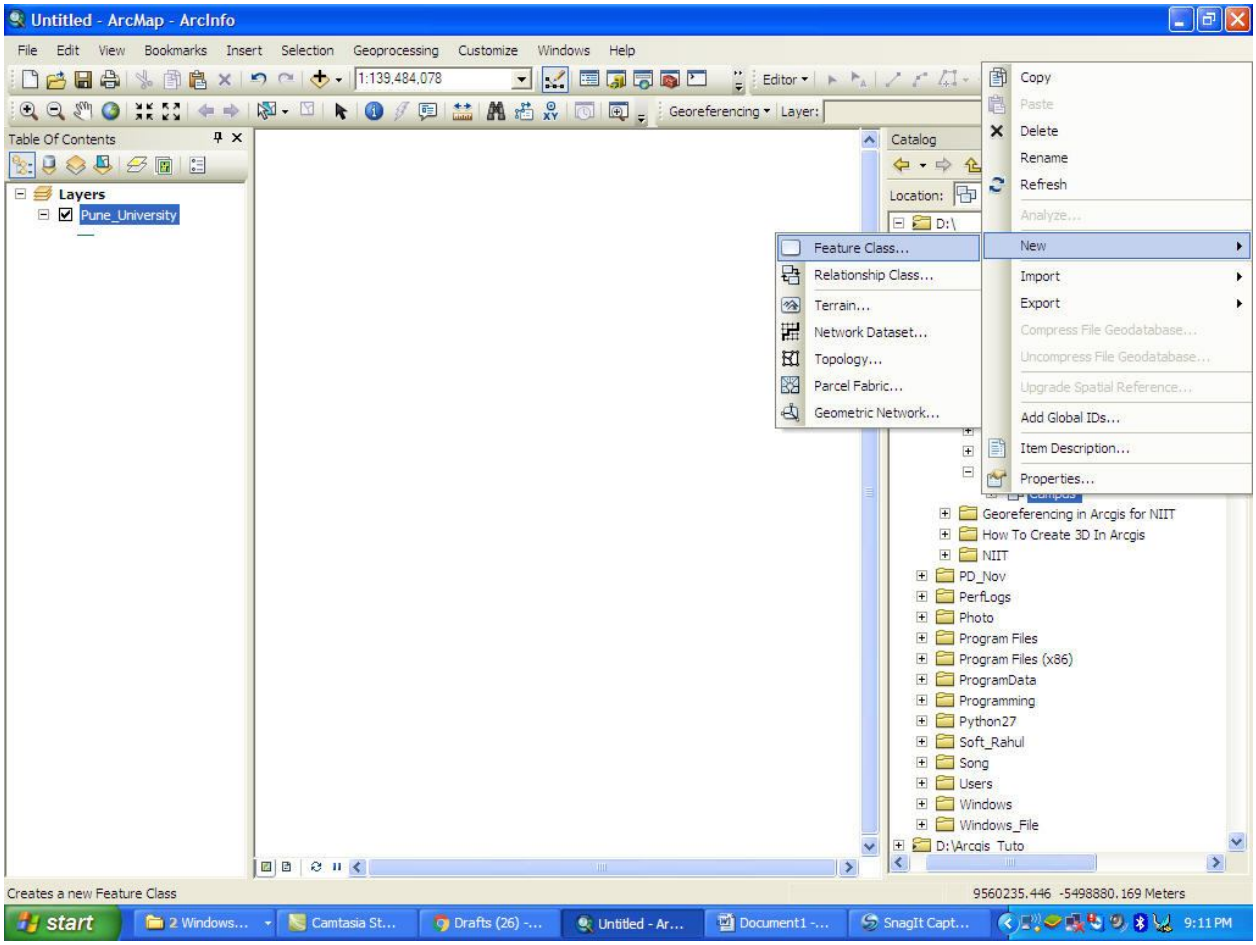
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File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
Editor
Georeferencing Layer:
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Layers
Pune_University
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Location:
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Feature Class...
Relationship Class...
Terrain...
Network Dataset...
Topology...
Parcel Fabric...
Geometric Network...
Copy
Paste
Delete
Rename
Refresh
Analyze...
New
Import
Export
Compress File Geodatabase...
Uncompress File Geodatabase...
Upgrade Spatial Reference...
Add Global IDs...
Item Description...
Properties...
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D:\Arcgis Tuto
Creates a new Feature Class
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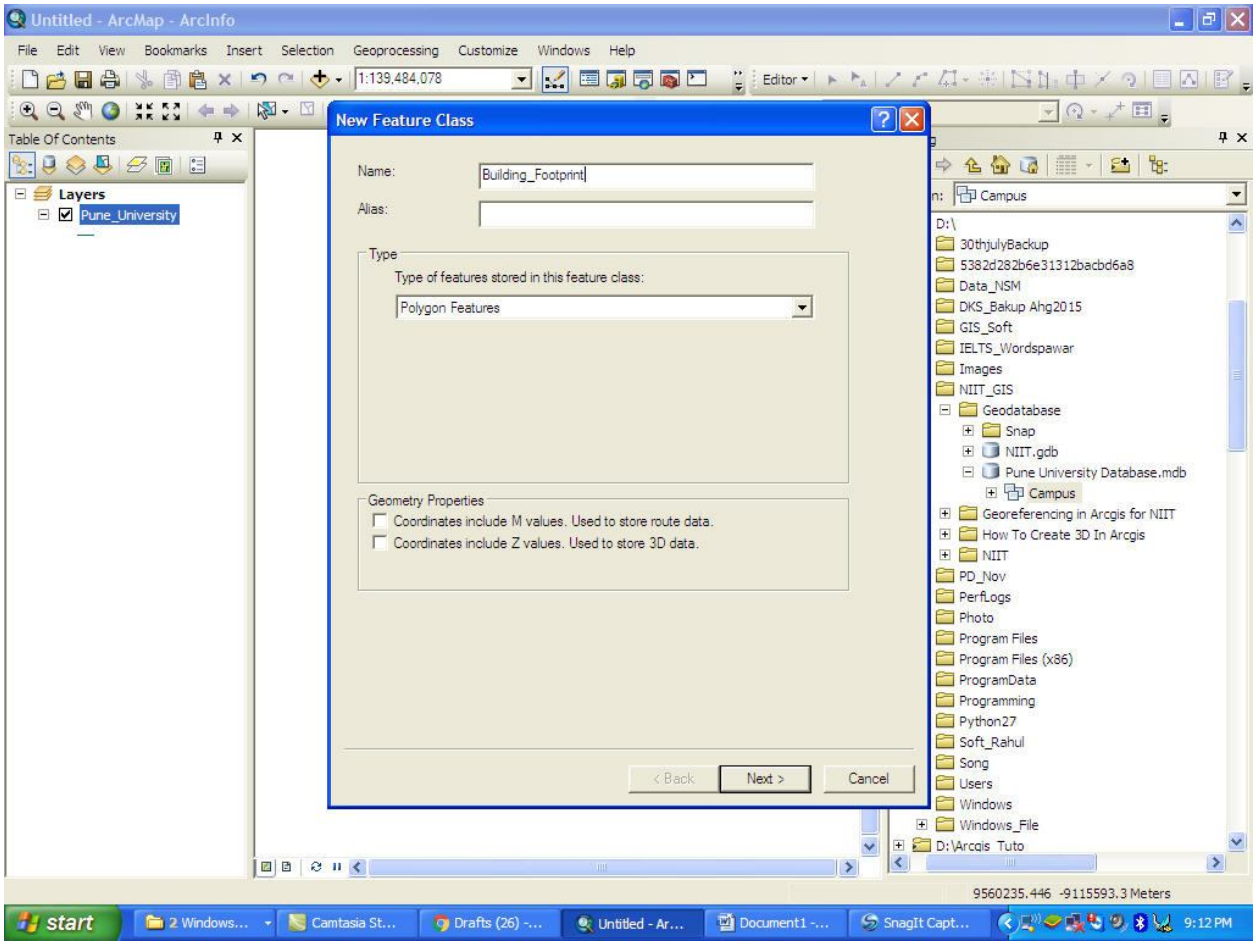
SnagIt Capt...
9:11 PM


Untitled - ArcMap - ArcInfo
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:139,484,078
Editor
Table Of Contents
Layers
Pune_University
New Feature Class
Name:
Building_Footprint
Alias:
Type
Type of features stored in this feature class:
Polygon Features
Geometry Properties
Coordinates include M values. Used to store route data.
Coordinates include Z values. Used to store 3D data.
< Back
Next >
Cancel
Campus
D:\
30thjulyBackup
5382d282b6e31312bacbd6a8
Data_NSM
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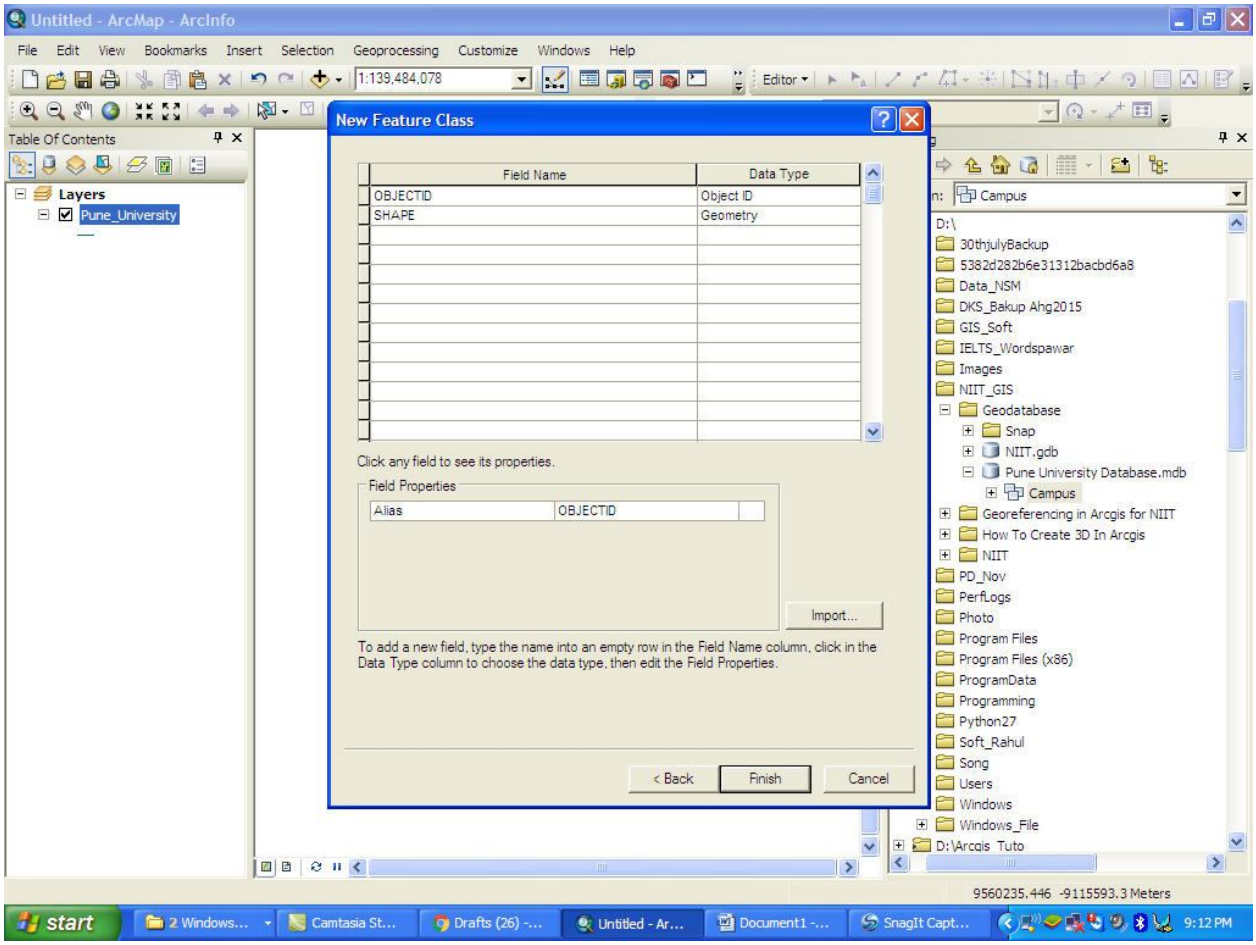
Untitled - ArcMap - ArcInfo
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Table Of Contents
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Pune_University
New Feature Class
Field Name
Data Type
OBJECTID
Object ID
SHAPE
Geometry
Click any field to see its properties.
Field Properties
Alias
OBJECTID
Import...
To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.
< Back
Finish
Cancel
Campus
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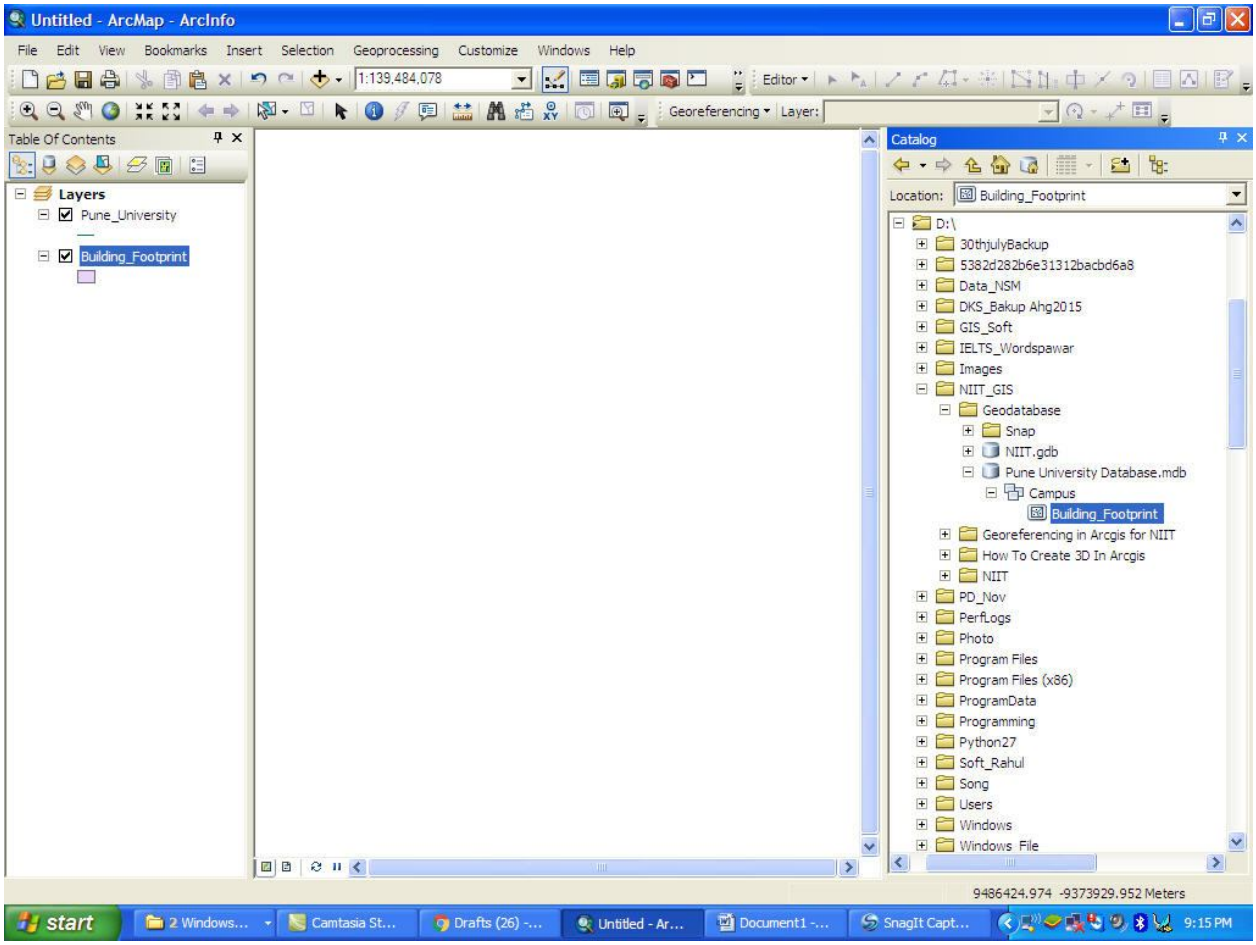
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3) ArcSDE Geodatabases:(Spatial Database Engine)