Pandas –

1\Activities –

NetflixRemix = reader, csvreader

[IntroToPandas](http://localhost:8891/tree/repo/UTAAU201710DATA1/1-Class-Content/04-Pandas/1/Activities/03-Ins_IntroToPandas) = Create dataframes

Data functions = mean, sum, unique, value\_counts

Column manipulations= list, Reorganize, rename columns

Hey Arnold = Reorganize, rename columns

Good reads = remove columns, DataFrame to a new CSV file

Good reads summary = DataFrame summary table , sum (multiple columns), unique, max

Loc and iloc = Set new index to a column (values r not unique), loc and iloc usage  
note- Using iloc[] (no duplicates since a numeric index is always unique)

Good movies = certain columns, conditions applied to columns, export this file to a spread (spreadsheet)

Cleaning data = delete column, Identify incomplete rows

Portland crime = replace certain entries in a column by a single entry, Create a new DataFrame that fits specific criteria.

2\Activities –

Pandas recap = Detect if any rows with missing data, Filter data for a condition in a DataFrame, Convert series into a DataFrame, change column name, Problem can be seen by examining datatypes within the DataFrame, Using function‘to\_numeric()’ to convert a column's data into floats

Group by = GroupBy function, convert to numeric time, so it can be summed up, group a DataFrame by multiple columns, Convert a GroupBy object into a DataFrame

Pokemon = Create new dataframe with specific columns, create GroupBy object based on specific column, mean of all columns in a group at once, Create new dataframe using the grouped averages (data), sum (action) across axis=1, Sort, Reset the index, Save output to Excel

Sorting - Sorting the DataFrame based on specific column

**SearchForTheWorst – Create new dataframe from a specific value in a column in old dataframe.***Sort DataFrame by the values in the* **specific** *column. Reset index of sorted*

*DataFrame so that the ‘worst player’ is at index 0. Find & save all of the information collected on the specific item*

Merging – Merging 2 dataframes

**Cryptocurrency** – Merging 2 dataframes, rounding to 2 decimal places

Binning = Binning

Binning Ted – Binning, add column to dataframe, groupby(), calculations on the group

Mapping – Operation on a column (say multiply all values in a column by 1000)

Mapping use for Formatting of columns(say all values in column to 2 decimal places)

**Cleaning kickstarter –** *Use loc to filter out using a condition in a dataframe (any projects that made no money at all – use of loc with ‘==’)*

*Use loc and filter*

Mapping use for Formatting of columns(say all values in column to 2 decimal places)