

## Data Analysis in Geophysics

### **Activity 1 – Batch Processing: How to automate the analysis of many files**

1. Create a new variable:

```
$class_dir=[path_to_class_files]
```

2. Download the file ranNum.zip from Canvas – (the file is in: Module 1 – Activity 1)
3. Create a new subdirectory in class\_dir called: /data
4. Move the .zip archive to your new data directory new directory
5. Unpack the compressed files with unzip
6. Create a new directory (mkdir) called [class\_dir]/plots
7. Move all .png files to a the directory [class\_dir]/plots/
8. Move all .txt files to a new directory called [class\_dir]/txt/
9. Combine all text files in a single file called 'AllNumbers.txt'
10. Move only image files showing the number two to a new directory called /plot/two
11. Reduce the size of these images by 50 percent.