Python

A Variable can be used to store and retrive values

Example: Hello World
 print("Hello World")
Example: Hello World with Variable
 message = "Hello World"
 print(message)

A List is a variable that can store other variables

```
Example: List & Print
names = ["Bob", "Jane", "Alex"]
print(names[0])
print(names[1])
```

A module is a collection of code that provides extra features

```
Example: Roll a dice
  import random
  print(random.randint(1,6))
```

Conditional Execution runs code based on condition

```
Example: Win on Heads (Coinflip)
import random
flip = random.randint(0,1)
if(flip == 0):
    print("You win!")
```

Terminal

To navigate, CMD can be used instead of Windows Explorer

```
Example: Navigate to folder
cd Demo

Example: Navigate to parent folder
cd ..

Example: Open a file with notepad
notepad eightball.py

Example: Make a folder
```

To execute a python program, the terminal can be used

mkdir testfolder

Example: Run python program in /demo
 cd test
 python eightball.py

Example: Open Python IDLE in folder
python -m idlelib

Example: Open file with Python IDLE python -m idlelib eightball.py

Shell mode is like the IDLE, but within the terminal

Example: Start the shell python

If you want to stop a terminal command, use CTRL + C

Git & GitHub

Keep track of changes, with a git
 repository (repo)

```
Example: Setup a repo and commit git init git add -A git commit -m "Commit Message" git log --oneline --graph --all --decorate
```

Branch a program to create different versions, such as for new features

```
Example: New branch and commit git branch loop git checkout loop
```

Merge a branch to combine code from one commit into another

```
Example: New branch and commit git checkout master git merge loop
```

Establish a remote to push files to and pull files from

```
Example: Add a remote and pull/push git remote add origin https://github.com/noah-dev/talk_1 git pull master origin git push master origin
```