O Function, My Function!

O Captain My Captain by Walt Whitman O Captain my Captain! our fearful trip is done, The ship has weathered every rack, the prize we sought is won, The port is near, the bells I hear, the people all exulting, While follow eyes the steady keel, the vessel grim and daring; But O heart! heart! heart! O the bleeding drops of red, Where on the deck my Captain lies, Fallen cold and dead. O Captain! my Captain! rise up and hear the bells: Rise up--for you the flag is flung for you the bugle trills, For you bouquets and ribboned wreaths for you the shores a-crowding, For you they call, the swaying mass, their eager faces turning; Here Captain! dear father! This arm beneath your head! It is some dream that on the deck. You've fallen cold and dead. My Captain does not answer, his lips are pale and still; My father does not feel my arm, he has no pulse nor will: The ship is anchored safe and sound, its voyage closed and done; From fearful trip the victor ship comes in with object won: Exult O shores, and ring O bells! But I, with mournful tread, Walk the deck my Captain lies Fallen cold and dead

Nasri Academy Thurs. Sept. 19th, 2019 By Julio B. Figueroa

Overview

- Review
- Def my_function():
- File Organization
- Assignment: function(myFunction)

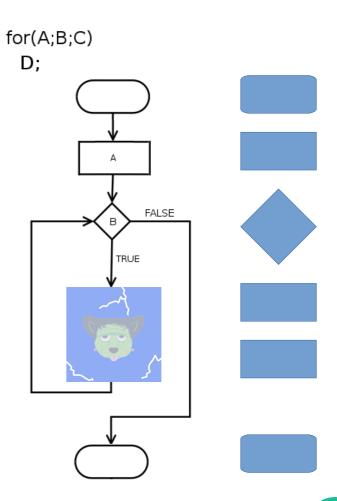
Review

These structures control execution of a program.

They run repeatedly until some condition(s) is/are met

We introduce two types of loops

- For loops
- While loops

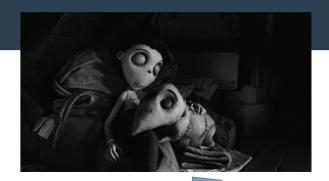


Def my_function():

```
# you can define your own user defined functions!
      # functions work in an input --> output manner
      def avg number(x, y):
          print("Average of ",x," and ",y, "is",(x+y)/2)
      avg number(3,4)
      avg number(11,12.2)
10
      def avg number2(z, k):
          avgNumber = (z+k)/2
12
          print(avgNumber)
13
      avg number 2(10,4)
14
15
      # what happens if you use the output of avg number() inside avg number2()?
16
      avg number2(10,avg number(2,2))
      # can you think of a way to make this work?
      # hint: consider dataTypes and what the output of a function is
```

Def my_function():

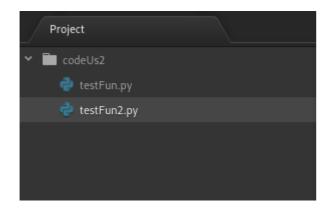
```
estFun2.py
      def average2(a,b):
          average = (a + b)/2
          return average
      def average3(a, b, c):
          average = (a + b + c)/3
          return average
      def average4(a, b, c, d):
          average = (a + b + c + d)/4
          return average
      print(average2(10,5))
      print(average3(15,10,5))
      print(average4(20,15,10,5))
15
      # now you can use functions within functions
18
      # becareful with the dataTypes they accept
      print(average2(2,average3(1,2,3)))
```





File Organization

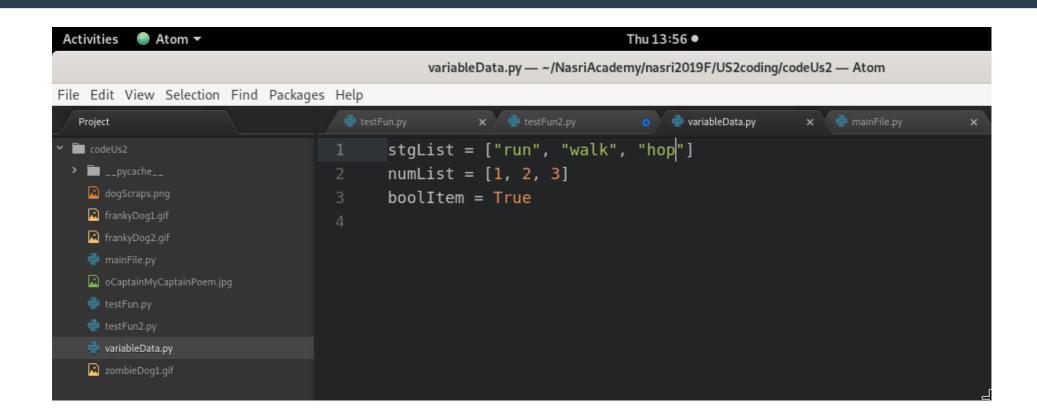
- How do you structure programs into separate files?
- How do you call a function from another file?
- For those using atom, use the browser view to drop your files into view like so.



We're going to add a few more files to this folder



File Organization





File Organization

