

EECS10 Discussion Week5

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Functions

- **Syntax** of a function
 - Function declaration
 - Function definition
 - Function call
 - Function parameter(s)
 - Function argument(s)
 - Return value
- **Semantics** of a function:
 - Encapsulation
 - Hierarchy
 - Re-use
- **Scope rule**
 - Global variable vs function parameter vs local variable

Tiny Calculator

- Design a menu driven calculator
- Do basic operations
- $+ - / *$
- Store numbers in global variables
- Use functions



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Assignment 6

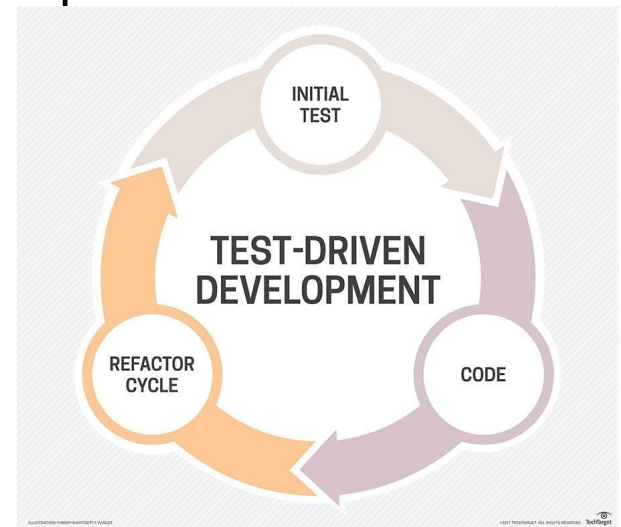
- Complex number calculator
- Design a user menu
- Define functions for different complex operations
- Use global values to store complex number



Euler - The Wall Street Journal

Assignment 6

- Two-week assignment
 - Plan your work or simply said ***start early, finish early!***
 - **Week 1:**
 - Design the user menu
 - Build skeleton for the program and code empty functions
 - Handle the representation and simplification of numbers
 - **Week 2:**
 - Fill in the body of the functions
 - Add error handling and try the bonus part
- Practice short cycle of coding and testing!



For curious minds!

- If you ever wondered what **e** means and why it's 2.718... , read:

[An Intuitive Guide To Exponential Functions & e](#)

- If you ever wondered what could possibly mean if someone raise **i** to the power of **i** (i^i) or even (i^{i^i}), read:

[Intuitive Understanding Of Euler's Formula](#)

**please take a moment to
consider the beauty of
this formula**

$$e^{i\pi} + 1 = 0$$