This week's artuset: 2023 Boston monthon · (sv file · 2 little messy · name, 2ge, gender, country, thish the, ...., · top 1000 finishers privzey ( chrics. · Sane: 522.000 Recuracy IS Uno is left concerted w/ El Personal 247 infr vorput uners it we don't need names, ignere then! skews male? \* same time? In 2 moment, we will dear stater call: - work? \* - work as expected? \* Rin the code If we get an error:-1. DON'T PAMCI 2. Scroll to bottom and read the mag 3. Add prints to find out the problem - velve of the verizide print(x) - data type of the variable print (type (a))

Current gozl: bresolve are error messages using this method

- Syntax Error
   (> typo?
   missing paren, colon, etc.
   check the line above
- Type Error 5 operation [function doesn't fit kue data type "5" + 5
- Index/key Err
   Satside the bonds of
   R list [dictionary

- 1st 1 = [4,5]
  1st 2 = [6,9]
  1st 3 = (st 1 (st 2))
- (>+1 = [4,5]
   print(1\$+4)

- Name Error Stypo? Variable doesn't exist forgot to import module
- Vzlve Enor Ly vzlve is the proden, not the data type int ("5.5") X

OH: what type of crar?

- · [4,5]=lot
  - χ= flozt ("13,789.50")
- dct = {'z':3}
   print (act [3])

3. Unit Testing Debugging: does ar com work? Unit Test: does at cole work as expected? } · solving the provern's DS2000: test case for the whole program DS2500: test individual function> · Enclins the shart, concise · main / driver : creates objects, calls Enctions · if ar indu functions where, we can put them together w/ considence on labor Those - pretty sure whole program works no matter upratis in data the what user types in Today's cole- look for older noners! Functions in driver. - main (no unit tests) - tilter\_age (mit tests!) Filter\_ 210 = exputed example input -parameters 45 rge (int) [x, y, 2] [46,47,48] list of zers (ints) list of times (strings) [x, y, Z]

- returns 200 list of times, filterer for 245, 10] every item > zye 22, 6]

[]

## 5

in cole (tri): compute expected us. zotral

20 [21, 19, 17] [x] [x, y, 2]