

Comp 123 Exam 1 Review Sheet

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types of errors

- **syntax errors**: error in structure of a program and the rules of that structure
- **runtime error**: doesn't appear until you run the program (ex. dividing by 0)
- **semantic errors**: program runs but does not do the right thing (logic error)

* debugging is trying to find errors (work backward)

code notes

- `int()`: converts values into an integer (whole numbers)
- `=`: Python's assignment token (assigns values to something)
- Python follows PEMDAS
- operator: simple computation (e.g. multiplication, addition)
- `str()`: holds a string of characters

code functions

- `for loop`: repetition of statements in the body of a loop
- `modul`: definitions and statements intended for use in other Python programs
↳ * access via `import` *
- `range`: gives us a sequence of values in a for loop
- `turtl`: data object used to create pictures (known as turtle graphics)
↳ need to import and call `turtl` at start of code to use it

• some ways to make global

- temporary variable: having changing value assignments throughout code while global does not

defines function

def decorate(str):
 new_str = '***' + str + '***' - new variable defined
 return new_str

sends result of function back to caller

defining
a
variable