

CODING

Coding standards / Guideline

1. Limited use of global variable
2. Headers for different modules.

Name of the module
Date of creation
Author
Modification history
Synopsis about the module
Different Functions called in module
I/O, o/p Parameters.
Global variables accessed by the module.

3. Naming convention for constants & functions.

Local variables, global variables,
✓ localdata
✓ Global Data
✓ CONSDATA

4. Proper indentation

5. Error handling or exception handling convention for function. eg. Error message, Return of function, increase of error

6. Avoid too difficult coding style

7. Use of identifiers for multiple purpose

8. Use comments indicate purpose of code segment.

9. Avoid lengthy functions.

10. Avoid GOTO statements.

11. Avoid repetition of same piece of code

12. Namming of file & folders

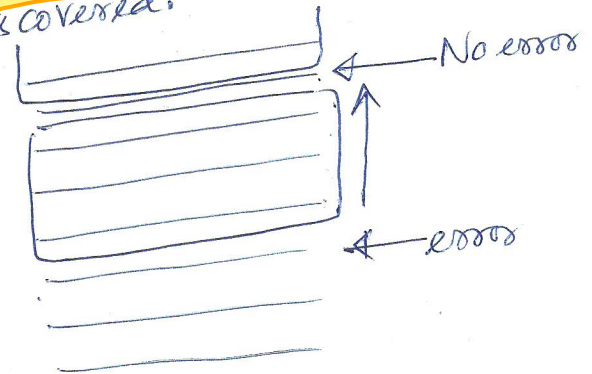
13. Use INCREMENTAL approach rather than BIG-BANG approach for integrating function/class.

DEBUGGING

LOCATE & FIX ~~THE~~ ERROR

1. Brute force method (out)
Checking values of variables — pointing intermediate values
of variables, use breakpoint, use checkpoint.

2. Backtracking / Backward analysis
Starting from statement with error / error region, statements are
traced backwards till error is discovered.
Examination of previous
version of a code.



3. Cause elimination
Lasting down causes that may have contributed the error.
Tests are conducted to find exact cause.

4. Program slicing
Slice a program for a particular variable
Comment out rest of the parts.

