

# Programming Guide lines

## Coding the problem domain

The coding should conform to the following guide lines.

*Font type* : Courier or similar monotype font

*Font Point size* : 12pts/14pts

All variables/attributes in the program should also be given a name that reflects the purpose for which the variable is used.

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All procedures should be confined to no more than 1 page in length if possible.

Page breaks should be set so that **procedures never cross a page boundary**.

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## Coding the User Interface domain

The User Interface Domain seeks to improve all user/computer communications. In particular, the Domain is working on formats and languages that will present information to users with more accuracy and a higher level of control. The UI domain should have

- Clear instructions on screen
- Readable Output
- A high degree of usability

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## Use of unfamiliar libraries and or construct

The use of at least one library which is new to you.

Document the reason for using the library.

## Error handling

The use of error handling to prevent the program from crashing.

- Checking input/output.
- Numerical calculations
- Any other relevant error detection

## Internal documentation

- All code modules should contain a ***prologue comment*** block at the top of the module. This should contain three items:

**Purpose** : (the purpose of the module/program)

**Author** : (the authour of the program)

**Date** : (the date when the module was last modified)

- All global variables should have a comment, to the right of the declaration, describing what the variable will be used for.
- All methods should have a short comment after the method header describing the purpose of the method.
- All difficult sections of code should have a short comment nearby clarifying the purpose of the code.

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