

Unit : 5 : Coding

* Explain Characteristics of Good Programming Language.

=> This are the basic characteristics of Good Programming Language.

- 1 Readability: A Program that can be easily understand by the beginner.
- 2 Portability: A Program that can be run on different platforms without any changes.
- 3 Generality: A Program that can be write in simple way so, All the user can understand.
- 4 Error Checking: A Program that can be design such way, so User can easily find the error.
- 5 Cost: Cost of Programming Language should be less.

6 Quick Translation: Programming Language should be easily translate in any other language very quickly.

7 Efficiency: Programming Language should be effective for any type of development.

8 Modularity: Programming Language should be support modularity so that developer can separate the program into different functions.

* Explain Different Coding Standards.

=> This are the basic Coding Standards.

1 Indentation: Indentation is very important in coding. In Indentation we have use proper space, use proper comma and write nested block with a spaced and All the braces should be start with new line.

2 Inline Comments: During the coding, we have to write the inline comments.

Using Inline comments, any developer can easily understand the code.

3 Limited the Use For Global:

At the time of coding, we do not have to use global variable.

4 Structured Programming:

During the time of coding, we have to maintain the structure of Programming Language.

5 Naming Conventions For All the types of Variable.

At the time of coding, we have to declare the variable with meaning full name.

6 Error Return Conventions and Exception Handling.

During the time of coding, Developer should have to create proper exception handling block for the error.

* Explain General Coding Guidelines.

=> This are the General Coding Guidelines which is follow by the developer.

1 Line Length:

Line of the Program should contain 80 character, so, it can easily understand.

2 Spacing:

A Program that should contain proper spacing with every variable, every control statement and every line of Program.

3 Error Message :

A Program should contain user understandable error message. So, every user can easily understand error in program.

4 Inline Comments :

A Program should contain inline comments, so, Developer can easily understand after a long time duration.

5 Don't Use Goto Statements :

A Program should not contain multiple Goto Statements because Goto Statements can reduce the understandability of Program and create complex structure of Program.

6 Code Should be well Documented :

Code of the Program should be commented for understanding easily.

* Explain General Rules For Programming Style:

=> This are the General Rules For Programming Style.

1 Clarity and Simplicity of Expression:

Expression is used to perform operation in program, the naming of the expression should be user understandable and well-defined.

2 Naming:

At the time of coding, we have to declared name with proper meaning. So that After a long duration developer can easily understand.

3 Control Constructs.

A Program should contain Proper structure of control statements.

4 Information Hiding:

Program should display only necessary information to the user. We do not need to display all the information of Program.

5 Nesting:

Program should contain Proper nesting structure so that user can understand properly.

6 User Define Types:

User Define Types should be contain proper name so that can be easily understand after a long duration.

7 Module Size:

Program is divide in such a way so that can be not increase the module size.

8 Side-effects:

Developer should ~~pr~~ have proper

information about the programming
Language that can be use for
Developpe code.

Confidential