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is a program, when it is executed Software the associated functionally must be satisfied. S/w is a data shucture used to manipulate the information S/tw consist the operational procedure, used to inducate the operational guideline of the slw. re... user manual, beginners guide, system overview...et Software consists the documentation manual used to indicate the list of the activities for authorized to develop the s/w - --Software Consists the documentation manual, used to indicate the list of the activities maintained to develop the s/w 10. ... - Formal specification Analysis Specification - Context Program Data flow Diagram

- flow chart

LER Diagram

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Design

S/W is a Combination of Program, operational

Procedure A Instruction Manuals, Finally we can conclude

the S/W is a logical Component rather then Physical ©

Component.

Software = Programs -+ Operational + Documentation,
Procedure Manuals

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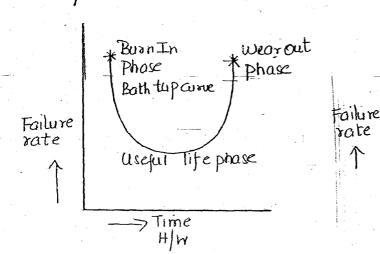
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Character of Software-

- 1. S/W. is developed or engineered but not manufactural in the classic sense.
 - 1) S/W development doesn't have the assembly line
 - 11) Logic of the program is developed only once
 - I that can be copied into any no, of The copies.
 - manufacture the product, during this process every time raw materials are included
 - 1v). After implementation of design document if it is generate the logical component called as the development

Process else that process is called as manufacture.

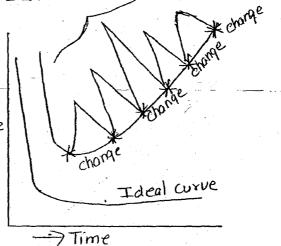
2. S/w doesn't WEAROUT but DETERIORATE Deterioration



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con What of the 3 stages:-

The life Cycle of H/w component

Ruxn in Phase

Burn in Phase

In the early stage of development due to the more numbers of errors the product failure rate is high.

In the Burn-In-Phase the Product is present in the developer's site:

After various test operations the failure rate is decrease & it will be established at one point.

Later deployee the product into customes place.

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Useful dife Phase

In this Phase the product is there in operational state.

Wear Out Phase

After the Continuous users of the product over a period of a time the life time of the product is decreases due to the environmental Changes.

1e ... Temp, Vibrations, Dust-Etc...

Therefore the failure rate of the production greases.

NOTE :-

When the H/W component is undergoes out Condition, then replace the component with new Component.

S/W is undergoes deterioration

1e... At the early stage of operation the product failure rate is high.

After the testing operation the product with be deployed in to the customers site.

S/W doesn't affected by the environmental changes but the eustomer requirements are not static. When the eustomer requirements are changed trequently then the maintenance cost of the S/W becomes twice or thrice than the development cost. This condution is called deterioration.

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Note:- when the s/w is deteriorate then Recognizer the s/w

3. Industry is moving towards component based development still the S/W is customer build.

Component is a reusable code or error free code or risk free code or fully tested code.

During the Physical Component manufacturing process we can directly use the Component without changes. ie ... Working models contains different 1.c to implement the model directly purchase the 1.c from market.

In the sliv development process, supplication to application the functionality will be differ therefore the sliv components are undergoes customization according to project functionally.

In the s/w development 4 Types of Components are used: