AKHILESH GAUTAM 2K19 | SE | 005

Date

Software maintenance Assignment - 2

Q1: What is program Comprehension process model? Explain program Comprehension Stratigue.

An) Program Comprehension

It is the ability to of the programmer to undustrand what a Computer program's Source code does in Computer Science instruction. Comprehension of a program is frequently overboaded in favour of learning and Syntax of computer language being faught writing comprehensible code, however is a Universal need, regardless of the compiler language in which it is written. It is increasinly common that programmers Cannot deciphy their code own code, since it is often not written clearly and inartively.

Stratigius

Programmers can use stratigue to improve program comprehension and each has its own advantages & drawbacks. The first method is to add documentation to code during or after code creation, and the second is to write code with an cuphase in code structure. A combination of both approaches is helpful do most program although there are some code builders who prefer one stratigy over another.

Date which method to use is a matter of puronal prefunce by the programma and any attempt to clarify code is far betten then none at all Adding documentation to code is the simple of the methods and when does well it can be very useful to programmers unfamiliar with the language the code is written in A program comprehension strategy is a technique used to form a model of target program. The model is Constructed by combining information contained in the Some code and documentation with the assistance and expertis of the domain knowledge that the programin bring to the task. * Top. down model program undustand is mapping from how program coole Key features * Views the Smutime of the knowledge being understand as organised into distinct domains liking the problem deman and the programming domain. + program Comprehension involves pecontructing knowledge the treordention prous is top- down , involving

. Date

Bottom - uf model

Using the strategy, the perogrammer encessively recorganise proettern in the program. These are iteraturely grouped into high-luck, semantically more meaningful structure. The high-luck, structure are chunked throughout into eurn bigger structure in a repetitive bottom-up fashion.

* opportunistic modul

while using this model, the undustradu makes use of both bottom-up and top-down Strategie, although not Simultaneously. According to this model, comprehension hings on there key I complementary feature - a knowledge base, a mental model and an

Go what are the various factor that affect program understanding & explain program compression tools

factors that after understanding -

