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INTRODUCTION TO SOFTWARE ENGINEERING

1. The term software engineering is composed of two words, software and engineering.
2. Software is more than just a program code. A program is an executable code, which serves
3. Some computational purpose. Software is considered to be a collection of executable

4. Programming code, associated libraries and documentations. Software, when made for a

5. Specific requirement is called software product.

6. Engineering on the other hand, is all about developing products, using well-defined, scientific

NEED OF SOFTWARE ENGINEERING

The need of software engineering arises because of higher rate of change in user requirements

And environment on which the software is working.

❑ Large software – It is easier to build a wall than to a house or building, likewise, as the

Size of software become large engineering has to step to give it a scientific process.

❑ Scalability- If the software process were not based on scientific and engineering

Concepts, it would be easier to re-create new software than to scale an existing one.

❑ Cost- As hardware industry has shown its skills and huge manufacturing has lower down

The price of computer and electronic hardware. But the cost of software remains high if

Proper process is not adapted.

☐ Dynamic Nature- The always growing and adapting nature of software hugely depends

Upon the environment in which the user works. If the nature of software is always

Changing, new enhancements need to be done in the existing one. This is where software

Engineering plays a good role.

☐ Quality Management- Better process of software development provides better and

Quality software product.

