**Assignment No # 04**

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**Question :**

What is Reequirement traceability matrix (RTM)?Explain with example and diagram.

Answer:

Requirements traceability is the process of establishing and maintaining a link between the requirements of a system and the implementation of those requirements in the system. It is used to ensure that the system meets the requirements that have been specified for it and that any changes to the system are traced back to the original requirements.

Traceability is important because it helps to ensure that the system is built correctly and meets the needs of the users. It can also be used to identify any gaps in the requirements and to ensure that all requirements have been properly implemented.

In software development, traceability is often achieved through the use of requirements management tools, which allow developers to track the relationships between requirements, design elements, and code. These tools can be used to create a traceability matrix, which maps the relationships between different elements of the system and helps to ensure that all requirements have been properly implemented.

For example , Traceability is also important in other fields, such as manufacturing and quality assurance, where it can be used to track the relationships between different parts or components of a system and to ensure that they meet the required specifications.

