SE Lab02

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a) A simple data processing project.
→ As requirements are static, we can go with **Waterfall Model**.

b) A data entry system for office staff who have never used computers before.
The user interface and user-friendliness are extremely important.
→ As there is a big component for a good user interface, we'll have to take inputs from end-users at each stage and have to move forward accordingly, so the **spiral method** would be well suited.

c) A spreadsheet system that has some basic features and many other desirable features that use these basic features.
→ At first, we'll have to implement the basic features, and then we can work on other desirable features, we can go with the **Iterative Model** where we'll develop basic features first and then, other desirable features can be developed in **parallel**.

d) A web-based system for a new business where requirements are changing fast and where an in-house development team is available for all aspects of the project.
→ **Spiral Model** would be well suited for this purpose, as the requirements are changing fast and we are having an in-house development team.

e) A website for an on-line store that has a long list of desired features it wants to add, and it wants a new release with new features to be done very Frequently.
→ **Iterative Method** would be well suited for this project. As we want to release on every new feature and want continues development.

f) A system to control anti-lock braking in a car.
→ This is a safety feature. So will require more analysis before implementation. So we will be having proper, fixed well-defined requirements. So We can use the **waterfall model**.

g) A virtual reality system to support software maintenance
→ There will be changing requirements in this project. Also, the User-Interface part should be well-developed. So we can go with the **agile method**.

h) A university accounting system that replaces an existing system
→ This is a fairly well-defined problem. So will be having static requirements. So we can use the **waterfall model**.

i) An interactive system that allows railway passenger to find train times from terminals installed in stations.
→ As this is a long-going project and we'll have to continuously take inputs from users. For better usability. So We can use **Agile Model**.

j) Company has asked you to develop software for missile guidance system that can identify a target accurately.
→ As there will be a lot of testing part involve and we'll have to continuously Improve until we reach the required accuracy, So we can go with the **Spiral Model**.

k) When emergency changes have to be made to systems, the system software may have to be modified before changes to the requirements have been approved. Choose a process model for making these modifications that ensures that the requirements documents and the system implementation do not become inconsistent.
→for this purpose **Spiral Model** will be well suited. As we'll complete the whole cycle for the running implementation before working on new changes. So it will insures consistency.

l) Software for ECG machine.
→ As requirements would be fixed, we can go with the **waterfall model**.

m) A small scale well-understood project (no changes in requirement will be there once decided).
→We can go with the **waterfall model**.