Question: Different Agile Approaches and their comparaive Analysis.

Answer: In software engineering, Agile neters to a development methodology based on iterative and incremental process that emphasize flexibility, collaboration and customers centric approaches. OSchum:

## Ly How it works:

Ly Iterative and incremental development with short spinints (usually 2-u weeks.)

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- Development teament seems and mi some Bultimil
- bleg events is print planning. Daily stand-ups, sprint Reviews Retrospectives, 1. odo

## LyApplicability: 00 on Basvilad anountines

- L> suitable for project with defined noles and some ideliverables envitogage and teads
  - L) commonly justed in software development and product tocused industries.
  - Lyworks best for small to medium sized teams.

Ly Effectiveness in temms of costs: 10 line it and cost- effect due to focused sprints and medical med Ly Continuous delivery neduced nisk of major neduced wastage. financial setbacks. I platenation to agolevel Example: A team developing ante-commence platform uses schum to delivery featurs, like. a shopping cart, product search and payment integration incrementally. : Exmou ti woth (2) Kaniban: " and object between and has evidential -> How it works : 2 mining ? Focuses on visualizing workflows and limiting work in progress (WIP). things ight busies a kanban board with columns like To Do , In progress and Done ... L) continuous Delivery, no fined timbones. LLS Applications: Attentong not slooting L> Best for operations and maintainance project one ongoing support L) Effective where work prolonities. Spequently change " not ted example

Ly Effectiveness in terms of costs:

Ly Minimal overhead cost. elecitations

Ly Improve workflow efficiency, neducing waste.

Example: A team managing IT support tickets visualize, incoming tasks on a kanban board to polonitize and nesolve issue.

3 Extreem Programming (XP):

Ly How it works:

L) Emphasizes technical practices like Test-Driven Development (TDD), continuous Integration (CI) and pain programming.

> short Iteration with frequent releases.

Ly customer involvement is integral.

## - Application:

Ly Ideal for projects requiring high-quality code and rapid changes.

L) common in startups or environments with rapidly evolving requirements.

Development (1DD), continuous Interportion (d 1-test suit espitousing lasiants out algorithme "Programming and testing. ensure rebust and reliable code. Ly show I terration with toequest touris (1 requality and accuracy are critical employs xp to of based maintanemice. Exect Brimonni vasillavein Example: A financial software protect where and Term savings due to reduced defects Ly Effectiveness in terms of costs: Ly customer involvement is inte show. Ly Initial costs may be higher due to pain Burnaboas and pure : cx now ti wotted