1. Singletan Pattern :-A singleton Pattern ensures that a class has only one instances and provides a global point occur to this is useful when aros exactly one object is needed to coordinate actions across the system 2. Observer pattern :-The abserver pattern defines one - to many dependence between of objects so that when one object charge state, all its dependencies are notified and updated automatically. This is often used in implementing distributed event - harding system. 3. Factory Pattern :-It is consider as another layer of abstraction over bodary pattern. A Factory patterns work around a Super-fortery which creates other factories. 4) Prototype Design Pattern :-Prototype allows us to hide the complexity of rely new instances from the client. The concept is to copy on existing object rather than creating a new instance from Scrathy Something that may include costly operations

5) Builder Design Pattern: To Separate the construction of a complex object from its representation so that the same construction process can create different representation. It helps in constructing a complex object step by step and the final step Will return the object. a Why Should We use Builder Design Pattern ? The Builder design pattern is used when que ned to create complex objects with a large parameters. This pattern is particularly usefull when an object needs to be constructed step by step, some of the ocenarios where Builder pattern is benificial are 3i) Complex construction Step - by - Step construction

(i) Avoiding constructors with nuttiple parameters

(i) Configural robject creation

() comes interface for multiple Representation.